# CDP-C79ES/C89ES

# SERVICE MANUAL

*US Model*
CDP-C79ES/C89ES

*Canadian Model*
*AEP Model*
*E Model*
CDP-C79ES

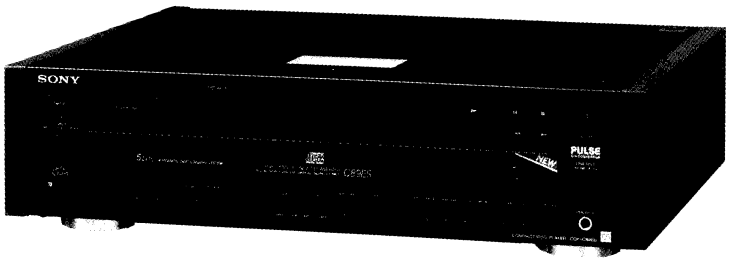



Photo: CDP-C89ES

| | |
|---|---|
| Model Name Using Similar Mechanism | CDP-C322M |
| Optical Pick-up Block Type | BU-5BD8B |

## SPECIFICATIONS

**Compact Disc Player**

| | |
|---|---|
| System | Compact disc digital audio system |
| Laser | Semiconductor laser ($\lambda = 780$ nm)<br>Emission duration: continuous |
| Laser output | Max. 44.6 $\mu$W*<br>* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block. |
| Frequency response | 20 Hz – 20 kHz ($\pm$0.3 dB) |
| Signal to noise ratio | More than 115 dB |
| Dynamic range | More than 100 dB |
| Harmonic distortion | Less than 0.0020%<br>(CDP-C89ES/C79ES) |
| Channel separation | More than 110 dB |

**Outputs**

| | |
|---|---|
| LINE OUT (FIXED)<br>(phono jacks) | Output level 2 V (at 50 kiloohms, non DSP mode)<br>Load impedance over 10 kiloohms |
| LINE OUT (VARIABLE)<br>(phono jacks) | Output level max 2 V<br>(at 50 kiloohms, non DSP mode)<br>Load impedance over 10 kiloohms |
| DIGITAL OUTPUT<br>(OPTICAL) (optical output connector) | Wave length 660 nm<br>Output level $-18$ dBm |
| PHONES<br>(stereo phone jack) | Output level max. 15 mW<br>Load impedance 32 ohms |

**General**

| | |
|---|---|
| Power requirements | US, Canadian model: 120 V AC, 60 Hz<br>AEP model: 220 V AC, 50/60 Hz<br>E model: 110—120 V or 220—240 V<br>AC adjustable 50/60 Hz |
| Power consumption | 18 W |
| Dimensions (w/h/d) | Approx. 470 × 125 × 385 mm<br>($18^5/_8 \times 5 \times 15^1/_4$ inches)<br>(CDP-C89ES/C79ES)<br>Including projecting parts and controls |
| Weight | Approx. 8.7 kg (19 lbs 3 oz), net<br>(CDP-C89ES)<br>Approx. 8 kg (17 lbs 11 oz), net<br>(CDP-C79ES) |

— continued on next page —

MICROFILM

COMPACT DISC PLAYER
SONY®

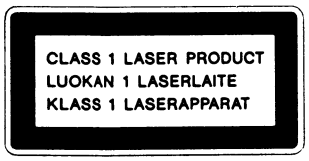
**Remote Commander RM-D715 (CDP-C79ES supplied)**
**RM-D815 (CDP-C89ES supplied)**

| | |
|---|---|
| Remote control system | Infrared control |
| Power requirements | 3 V DC with two size AA batteries (IEC designation R6) |
| Dimensions | 62 × 20 × 175 mm (w/h/d) ($2^1/_2 \times {}^{13}/_{16} \times 7$ inches) |
| Weight | 130 g (4.6 oz) including batteries |

**Supplied Accessories**
Connecting cord
(2 phono plugs ↔ 2 phono plugs) (1)
Serial chain cable (1) (CDP-C89ES only)
CONTROL S cable (1) (CDP-C89ES only)
Remote commander (1)
Sony SUM-3(NS)
Screws (1 set)

Design and specifications are subject to change without notice.

**For the European Countries.**




This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

**NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT**

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

**NOTES ON LASER DIODE EMISSION CHECK**

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

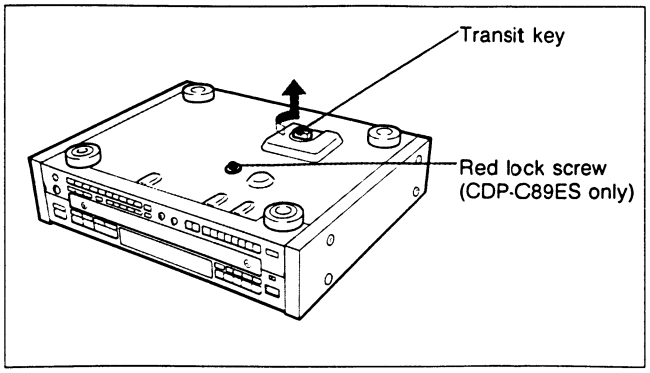
## Note on the Transit Key

The transit key and the red lock screw (CDP-C89ES only) on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key and red lock screw (CDP-C89ES only) by following the instructions on the label, and store it in a safe place.

When transporting the unit, replace the key and red lock screw (CDP-C89ES only) in its original hole and lock it in place.

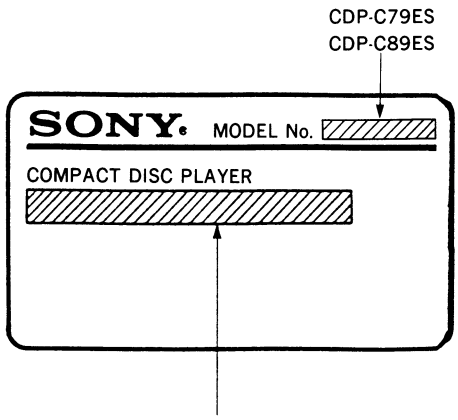
**Re-install the red lock screw**

1. Open the disc compartment by pressing the ⏏ OPEN/CLOSE button.
2. Press the DISC SKIP button until disc tray 1 is at the front.
3. Close the disc compertment by pressing the ⏏ OPEN/CLOSE button.
4. Wait for the ⏎ (DISC 1) indicator to blink before turning the power off. Re-install the transporting lock screw.




**MODEL IDENTIFICATION**

**— Specification Label —**




US, Canadian model: AC: 120V 60Hz
AEP model: AC: 220—230V~50/60Hz
E model: AC: 110—120, 220—240V~50/60Hz 18W

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

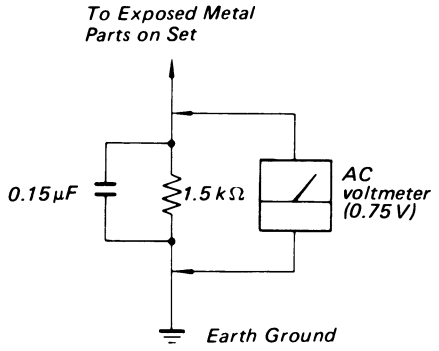



*Fig. A. Using an AC voltmeter to check AC leakage.*

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**SAFETY-RELATED COMPONENT WARNING!!**

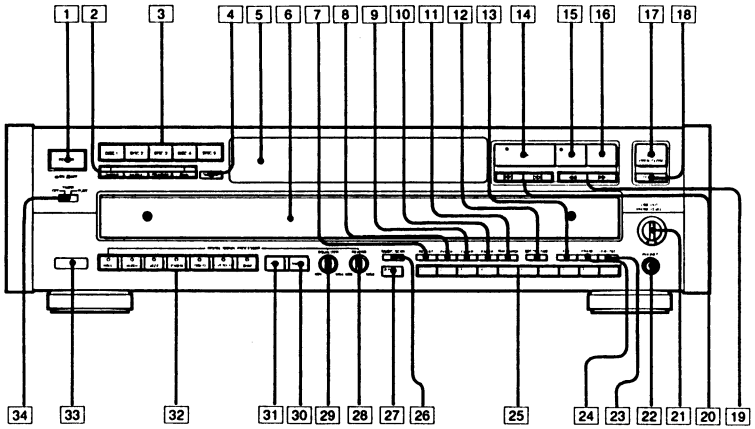
**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

# Location of Controls

## Front Panel

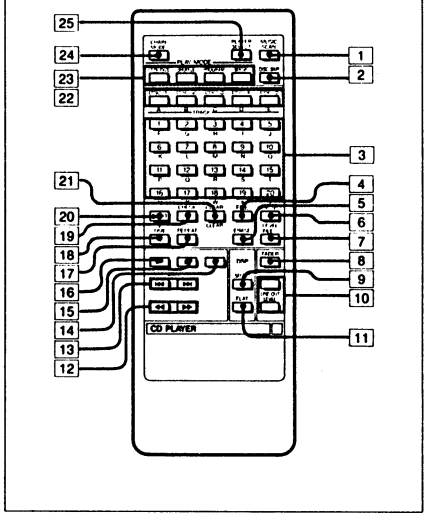



Refer to the pages indicated in ( ) for details.

1 POWER switch (page 8)
2 PLAY MODE buttons
CONTINUE button (page 11)
SHUFFLE button (page 11)
PROGRAM button (page 12)
BANK button (page 23)
3 DISC 1-5 buttons (page 8)
4 TIME/MEMO button (page 9)
5 Display window (page 9)
6 Disc tray (page 8)
7 REPEAT button (page 18)
8 CHECK button (page 13)
9 CLEAR button (page 13)
10 FADER button (page 16)
11 PEAK SEARCH button (page 17)
12 EDIT/TIME FADE button (page 14)
13 FILE button (page 22)
14 ▶(play) button and indicator (page 8)
15 ❚❚ (pause) button and indicator (page 8)
16 ■ (stop) button (page 8)
17 ⏏ OPEN/CLOSE button (page 8)
18 DISC SKIP button (page 8)
19 ◀◀/▶▶ (manual search) buttons (page 10)
20 I◀◀/▶▶I (AMS*) buttons (page 10)
21 LINE OUT/PHONE LEVEL control (page 8)
22 PHONES jack (page 8)
23 LEVEL FILE button (page 26)
24 ERASE button (page 22)
25 Numeric buttons (1-10) (page 10)
26 MUSIC SCAN button (page 19)
27 >10 (over 10) button (page 10)
28 DSP REVERB level control (page 20)
29 DSP EQUALIZER level control (page 20)
30 DSP FILE button (page 21)
31 FLAT button
32 DSP mode buttons and indicators (page 20)
BGM button
LIVE ROOM button
DISCO button
STADIUM button
JAZZ CLUB button
CHURCH button
HALL button
33 Remote sensor
34 TIMER switch (page 27)

* AMS is the abbreviation of Automatic Music Sensor.

## Remote Commander



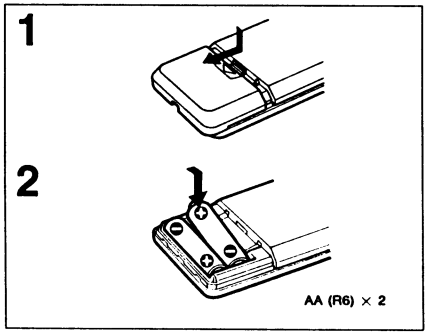

Refer to the pages indicated in ( ) for details.

1 MUSIC SCAN button (page 19)
2 DISC SKIP button (page 8)
3 Numeric buttons (1-20) (page 10)
4 FILE button (page 22)
5 ERASE button (page 22)
6 MEMO INPUT button (page 24)
7 LEVEL FILE button (page 26)
8 FADER button (page 16)
9 DSP SELECT button (page 20)
10 LINE OUT LEVEL buttons (page 5)
11 DSP FLAT button (page 20)
12 ◀◀/▶▶ (manual search) buttons (page 10)
13 I◀◀/▶▶I (AMS) buttons (page 10)
14 ■ (stop) button (page 8)
15 ❚❚ (pause) button (page 8)
16 ▶ (play) button (page 8)
17 REPEAT button (page 18)
18 TIME button (page 9)
19 CHECK (program check) button (page 13)
20 >20 (over 20) button (page 10)
21 CLEAR (program clear) button (page 13)
22 DISC 1-5 buttons (page 12)
23 PLAY MODE buttons
CONTINUE button (page 11)
SHUFFLE button (page 11)
PROGRAM button (page 12)
BANK button (page 23)
24 CHAIN MODE button (CDP-C89ES only) (page 29)
25 PLAYER SELECT button (CDP-C89ES only) (page 29)

Buttons with orange letters (A, B, C, .....) are for writing a disc memo (page 24).

# Preparing the Remote Commander

## Installing Batteries




**On battery life**
- About half a year of normal operation can be expected when using the Sony SUM-3(NS) batteries.
- When the batteries are run down, the remote commander will not operate the unit. In this case, replace both batteries with new ones.

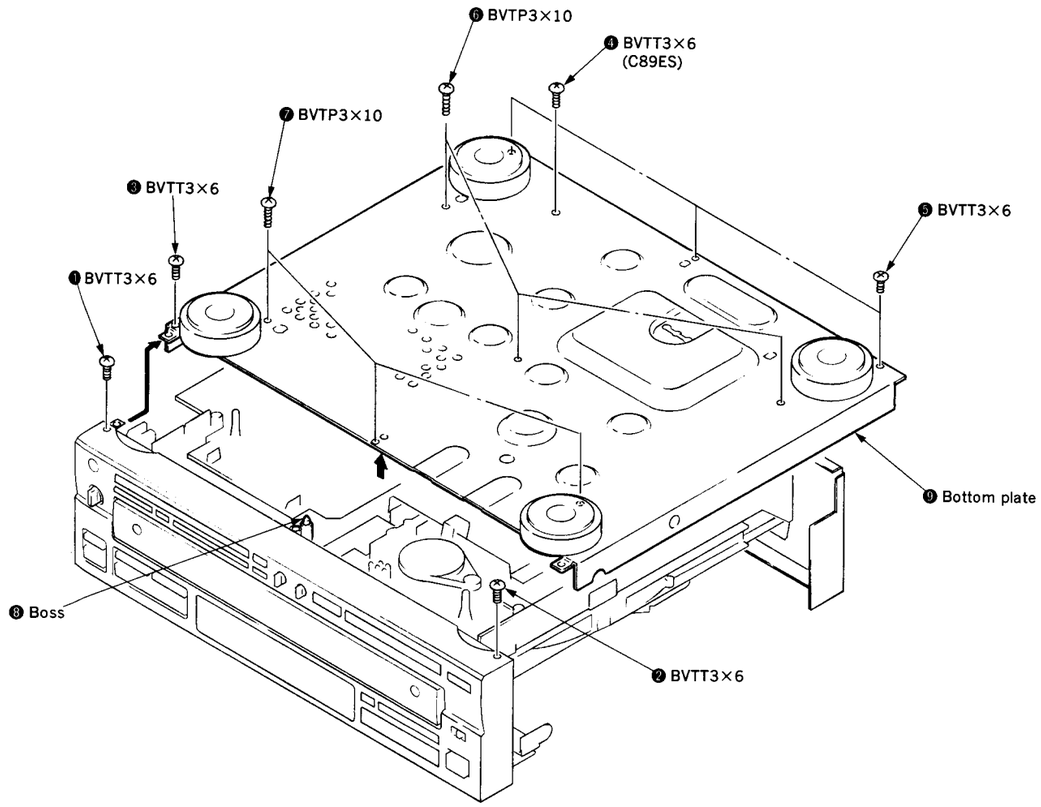
**Notes on the remote commander and remote control operation**
- Keep the commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the commander casing, particularly when replacing the batteries.
- Avoid exposing the remote sensor to direct sunlight or lighting apparatus. Such exposure can cause a malfunction.
- To avoid damage caused by battery leakage and corrosion, remove the batteries when the commander will not be used for a long time.

This section is extracted from instruction manual.

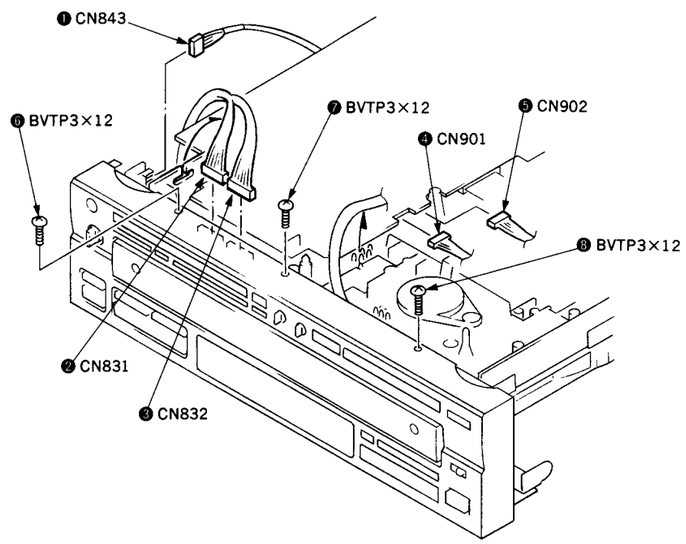
# SECTION 2
# DISASSEMBLY

**Note :** Follow the disassembly procedure in the numerical order given.

## 2-1. BOTTOM PLATE

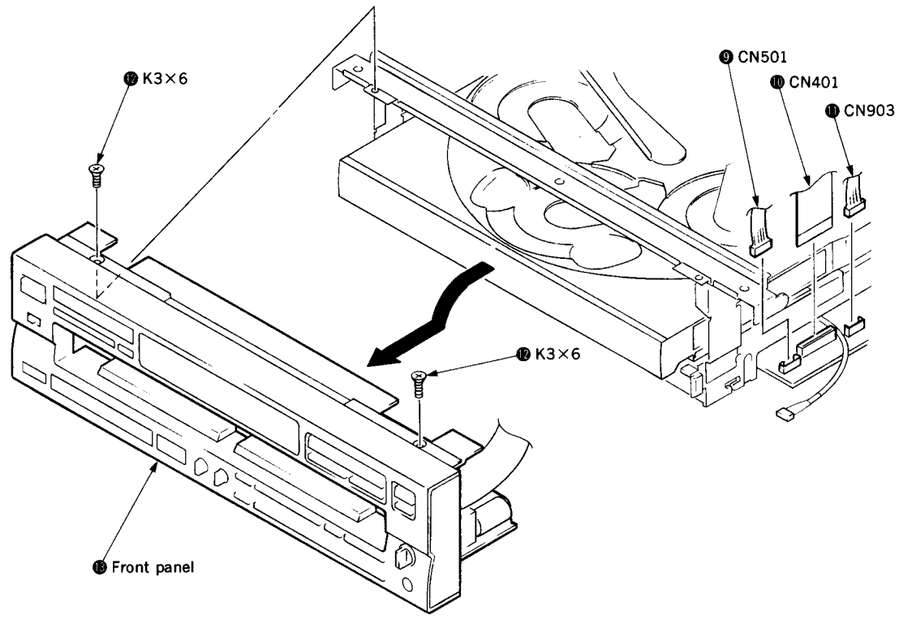



## 2-2. FRONT PANEL (1)

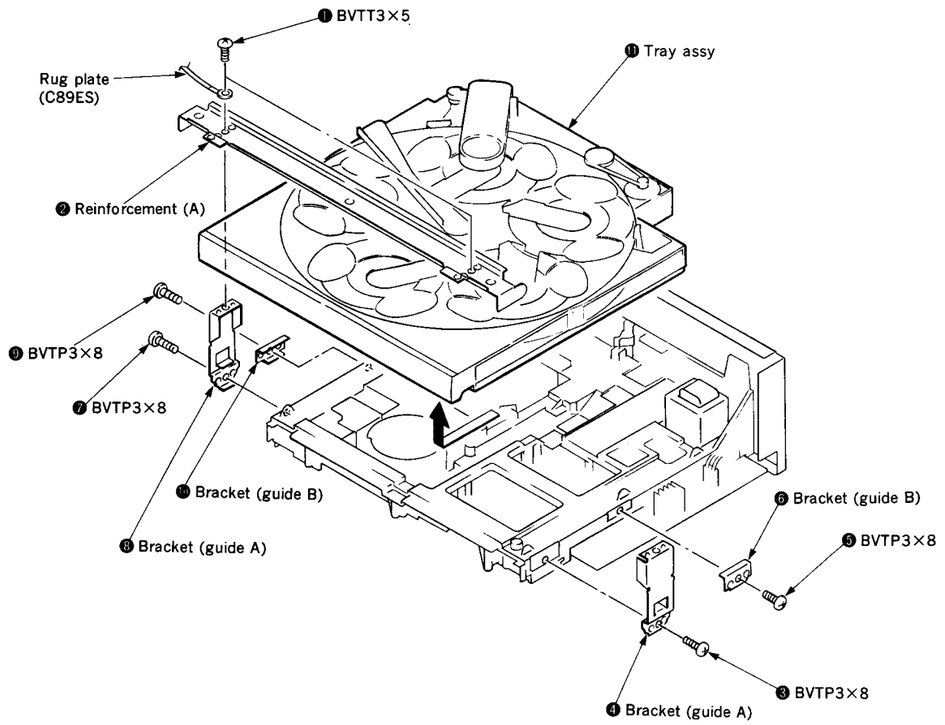





## 2-3. FRONT PANEL (2)




## 2-4. TRAY ASSY

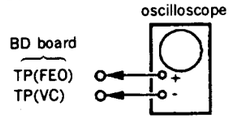


# SECTION 3
# ELECTRICAL BLOCK CHECKING

**Note :**

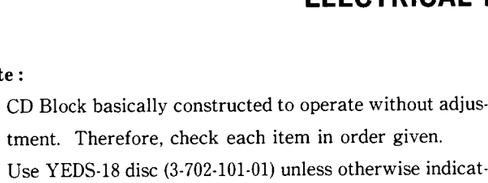
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

## S Curve Check




**Procedure :**

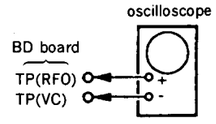
1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.




5. After check, remove the lead wire connected in step 2.

**Note :** ● Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
● Take sweep time as long as possible and light up the brightness to obtain best waveform.

## RF Level Check

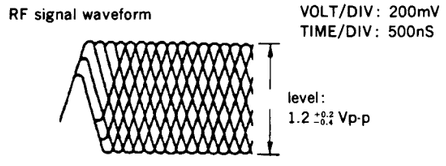



**Procedure :**

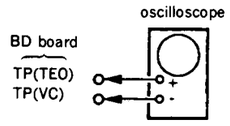
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

**Note :**

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

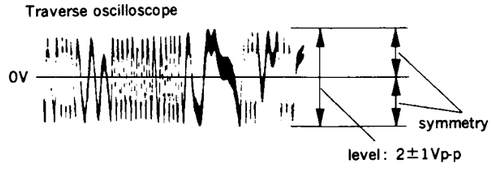



## E-F Balance Check




**Procedure :**

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

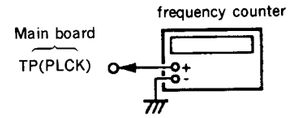



6. Remove the lead wire connected in step 1.

## RF PLL Free-run Frequency Check

**Procedure :**

1. Connect frequency counter to test point (PLCK) with lead wire.



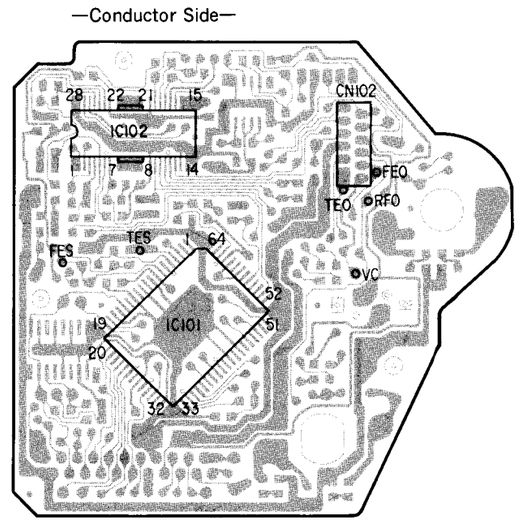

2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

## Focus/Tracking Gain

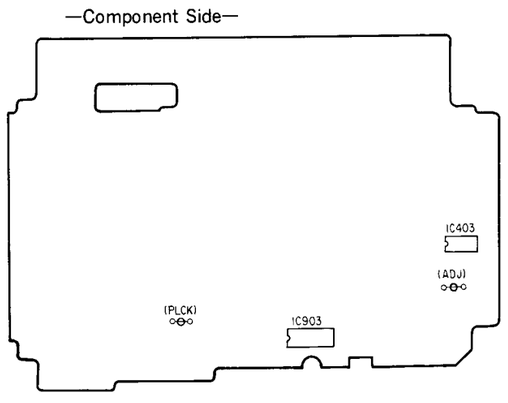
This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

**Adjustment Locations :**

【BD Board】

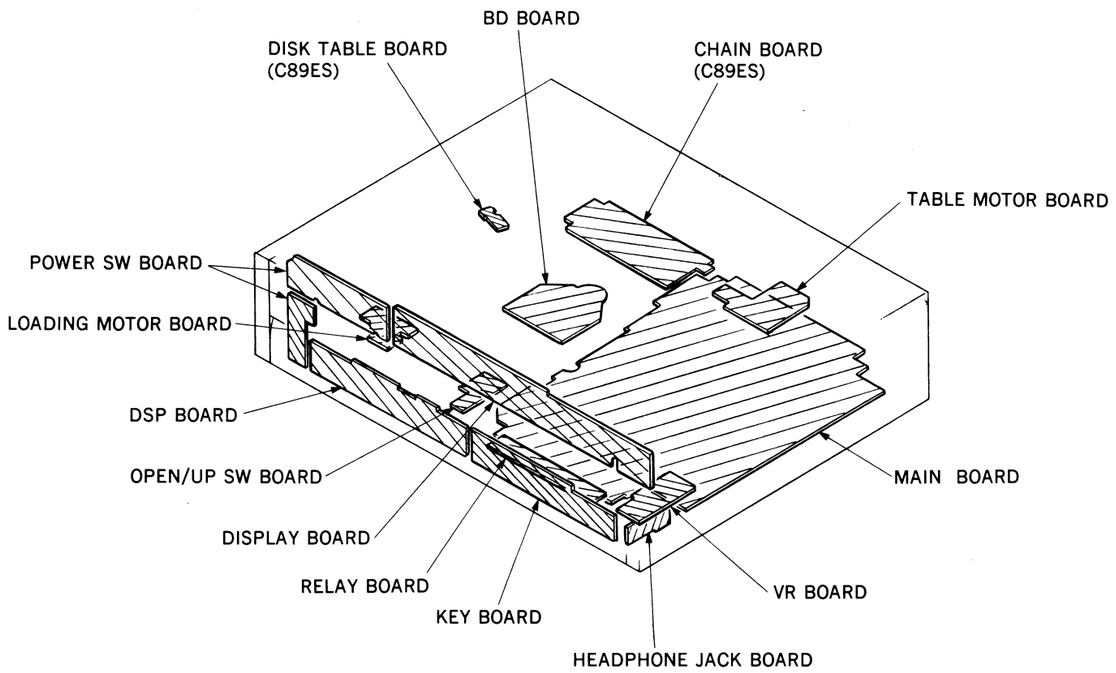



【MAIN Board】



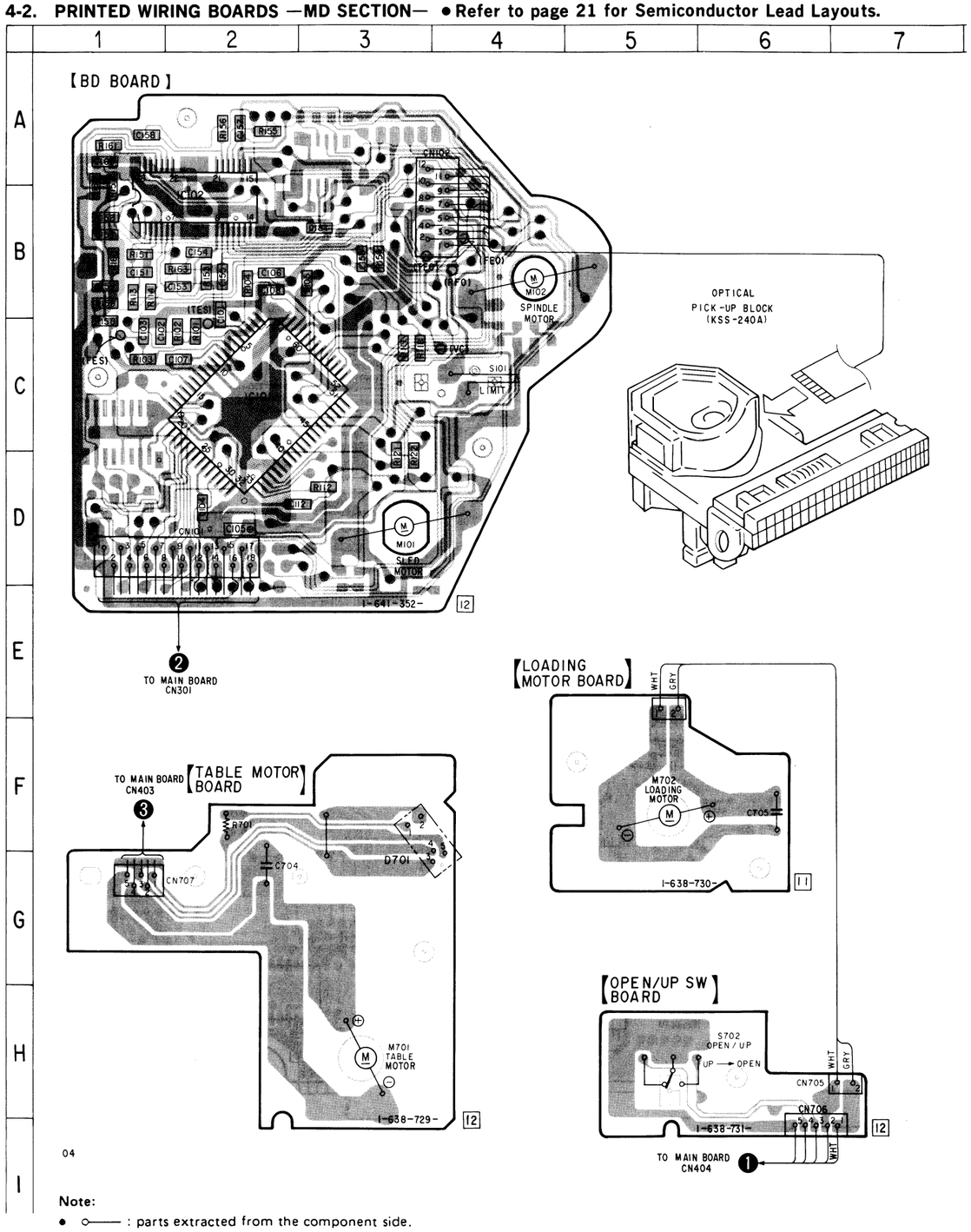
# SECTION 4
# DIAGRAMS

## 4-1. CIRCUIT BOARDS LOCATION






## 4-2. PRINTED WIRING BOARDS —MD SECTION— • Refer to page 21 for Semiconductor Lead Layouts.

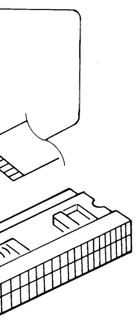


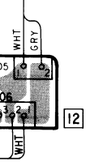

Note:

- ○— : parts extracted from the component side.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.

Layouts.

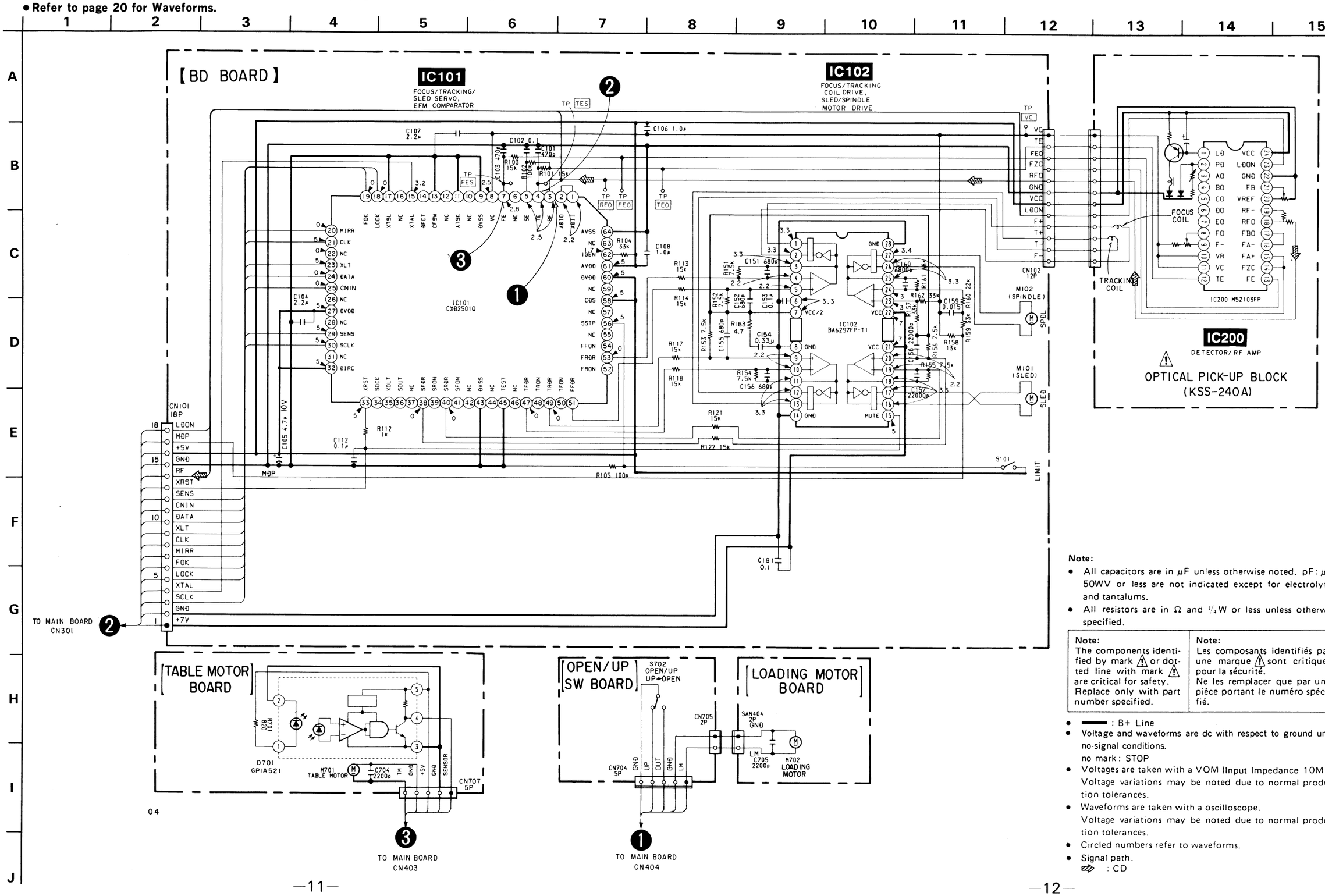






## 4-3. SCHEMATIC DIAGRAM —MD SECTION— • Refer to page 22 for IC Block Diagrams.

• Refer to page 20 for Waveforms.




**Note:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

| Note: | Note: |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

- ▬▬ : B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

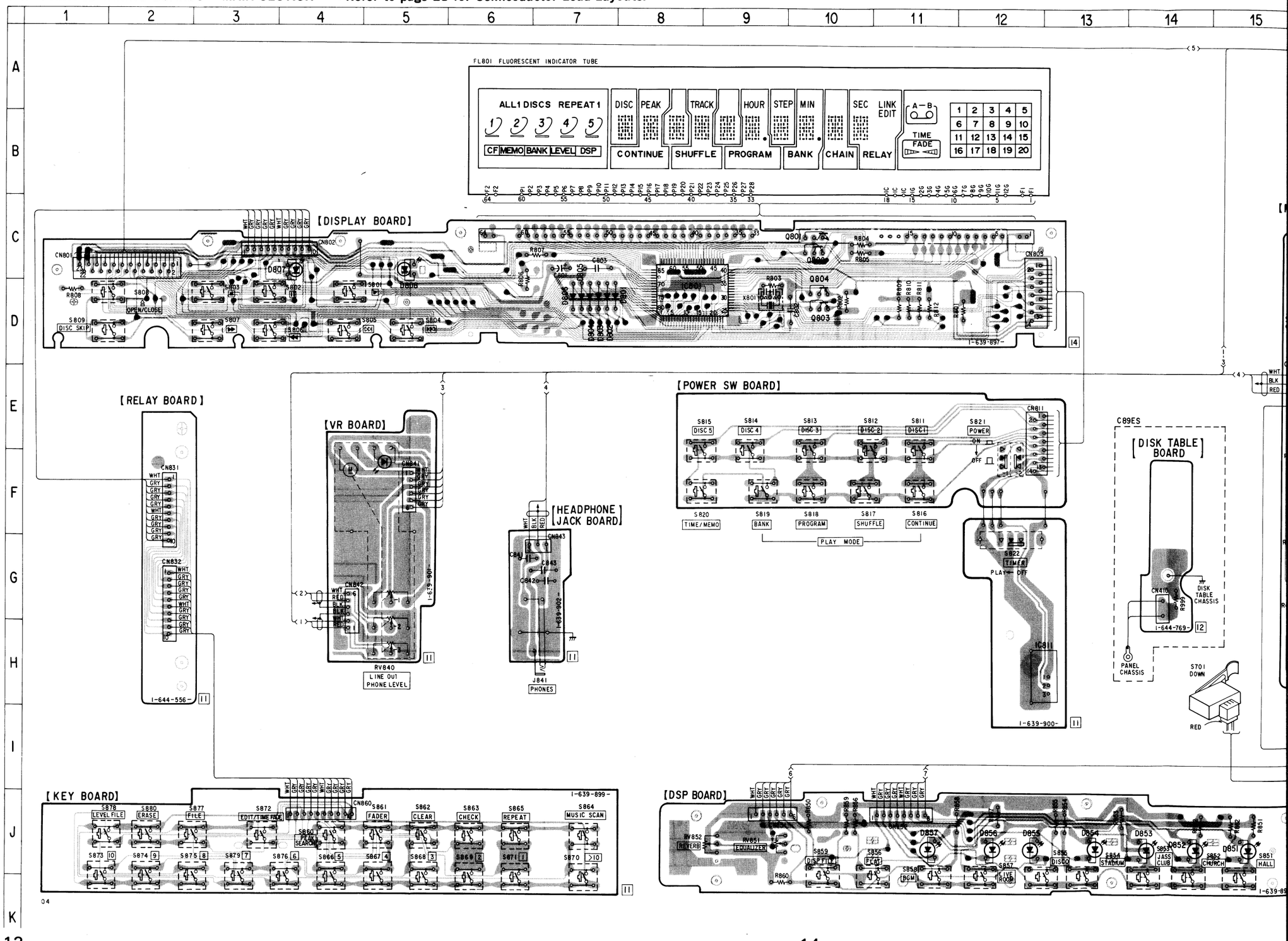
## • Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D201 | B-23 | IC307 | D-21 |
| D202 | B-23 | IC308 | G-28 |
| D203 | C-25 | IC401 | H-17 |
| D204 | C-25 | IC402 | I-17 |
| D205 | D-25 | IC403 | F-16 |
| D206 | D-25 | IC571 | E-16 |
| D208 | F-21 | IC751 | D-30 |
| D209 | F-21 | IC801 | D-8 |
| D211 | C-23 | IC811 | H-12 |
| D212 | C-23 | IC901 | I-25 |
| D213 | C-23 | IC902 | I-26 |
| D214 | C-23 | IC903 | H-20 |
| D341 | C-17 | IC904 | H-26 |
| D351 | G-18 | IC910 | E-19 |
| D401 | H-17 | | |
| D571 | C-19 | Q201 | B-24 |
| D601 | F-27 | Q203 | B-22 |
| D602 | F-27 | Q204 | B-20 |
| D603 | F-27 | Q205 | B-21 |
| D751 | D-29 | Q206 | B-20 |
| D752 | D-29 | Q341 | F-19 |
| D753 | D-29 | Q342 | F-19 |
| D754 | C-30 | Q343 | F-19 |
| D755 | C-30 | Q344 | C-17 |
| D756 | C-30 | Q345 | F-18 |
| D757 | E-30 | Q346 | D-17 |
| D758 | F-30 | Q371 | E-18 |
| D759 | F-30 | Q372 | D-18 |
| D801 | D-7 | Q373 | E-18 |
| D802 | D-7 | Q374 | D-18 |
| D803 | D-7 | Q375 | F-18 |
| D804 | D-7 | Q376 | D-18 |
| D805 | D-7 | Q573 | C-19 |
| D806 | D-7 | Q574 | C-18 |
| D807 | C-4 | Q575 | C-19 |
| D808 | C-5 | Q576 | C-19 |
| D851 | J-15 | Q577 | C-19 |
| D852 | J-14 | Q601 | F-27 |
| D853 | J-14 | Q602 | F-27 |
| D854 | J-13 | Q603 | F-27 |
| D855 | J-12 | Q604 | F-27 |
| D856 | J-12 | Q801 | C-10 |
| D857 | J-11 | Q802 | C-10 |
| D902 | E-17 | Q803 | D-10 |
| | | Q804 | D-10 |
| IC201 | B-24 | Q901 | F-20 |
| IC202 | D-24 | Q902 | F-20 |
| IC203 | F-26 | Q903 | F-20 |
| IC204 | G-21 | Q941 | F-20 |
| IC205 | D-21 | Q942 | F-19 |
| IC206 | D-21 | Q943 | F-19 |
| IC301 | I-23 | Q971 | D-19 |
| IC302 | H-24 | Q972 | D-19 |
| IC303 | F-24 | Q973 | D-19 |
| IC306 | F-21 | | |

**Note:**

- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.
- CND : Canadian model

## 4-4. PRINTED WIRING BOARDS —MAIN SECTION— • Refer to page 21 for Semicoductor Lead Layouts.



13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

【MAIN BOARD】

【CHAIN BOARD】

【DISK TABLE BOARD】

E MODEL

SW201 VOLTAGE SELECTOR 110 — 120V 220 — 240V

T901 POWER TRANSFORMER

AC IN

CN601 CONTROL S IN

DIGITAL OUT OPTICAL

J381 LINE OUT FIXED L R VARIABLE L R

SERIAL CHAIN CONTROL

CONTROL S

PANEL CHASSIS

DISK TABLE CHASSIS

S701 DOWN

S851 HALL S852 CHURCH S853 JASS CLUB S854 STADIUM

1 TO OPEN/UP SW BOARD CN706

2 TO BD BOARD CN101

3 TO TABLE MOTOR BOARD C707

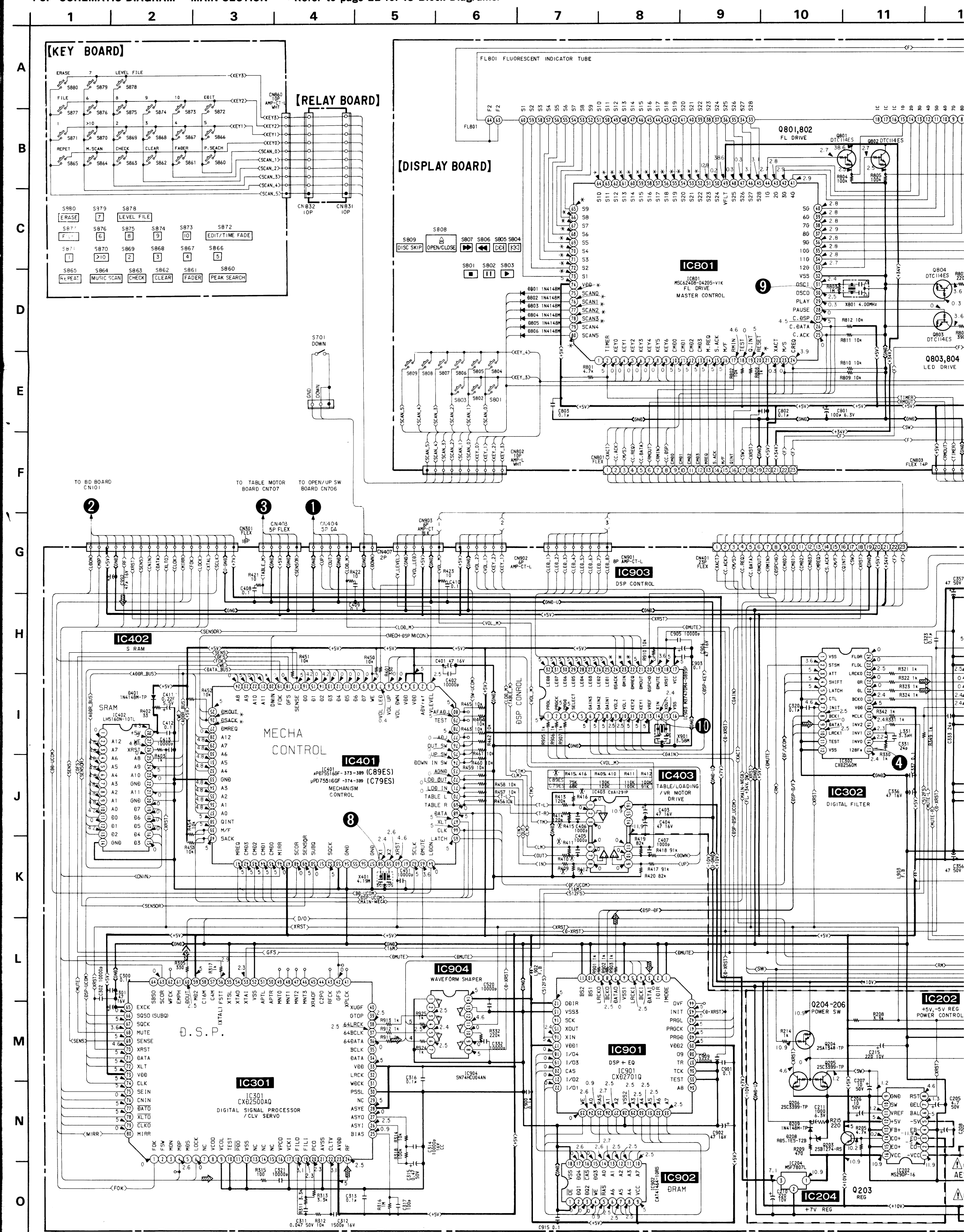
I-644-769- I2

I-644-555- I2

I-639-903- I1

I-639-898- I4

## 4-5. SCHEMATIC DIAGRAM —MAIN SECTION— • Refer to page 22 for IC Block Diagrams.



12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

[POWER SW BOARD]

[DSP BOARD]

[VR BO

[MAIN BOARD]

[CHAIN BOARD]

[HEADPHONE JACK BOARD]

IC811 SIRCS RECEIVER

IC303 D/A CONVERTER

IC306 DE-EMPHASIS LOW PASS FILTER

IC307 DE-EMPHASIS LOW PASS FILTER

IC910 LOW PASS FILTER

IC206 -12V REG

IC203 DIGITAL REG

IC205 +12V REG

IC201 +34V REG

IC571 HEADPHONE AMP

Q941-943 GAIN SWITCH

Q901-903 GAIN CONTROL SWITCH

Q971-973 GAIN SWITCH

Q371-376 MUTING

Q573-577 MUTING SWITCH

Q341-343,345 MUTING SWITCH

Q601-604 SIRCS SELECT

Q344 RELAY DRIVE

Q346 -7V REG

T901 POWER TRANSFORMER

Q201 SWITCH US,CND MODEL

US,CND,AEP MODEL

AEP,E MODEL

US,CND MODEL

E MODEL

C89ES ONLY

C89ES

C79ES

DIGITAL OUT OPTICAL

J381 LINE OUT FIXED VARIABLE

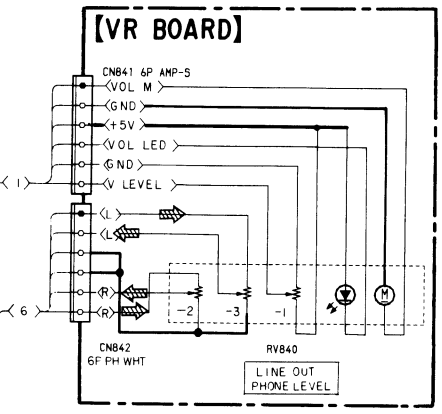
CONTROL S IN

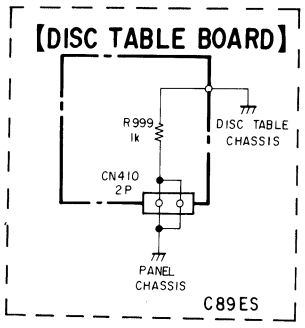
NOT REPLACEABLE: BUILT IN TRANSFORMER

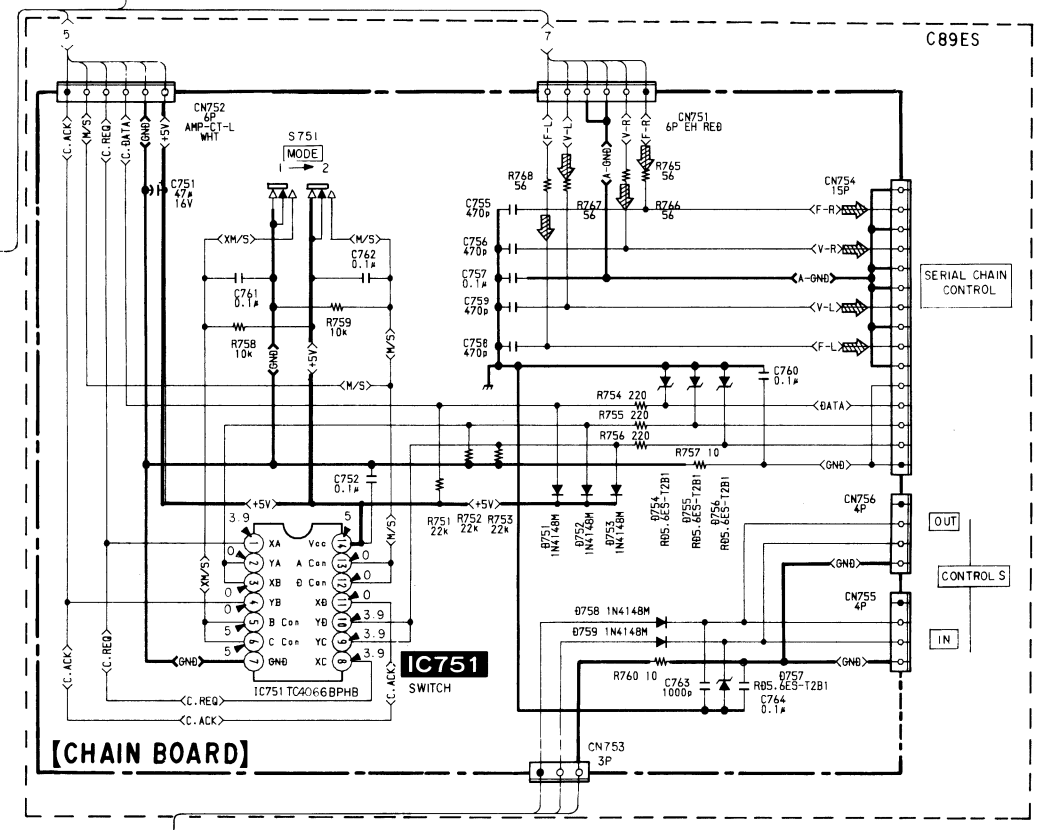
**Note:**

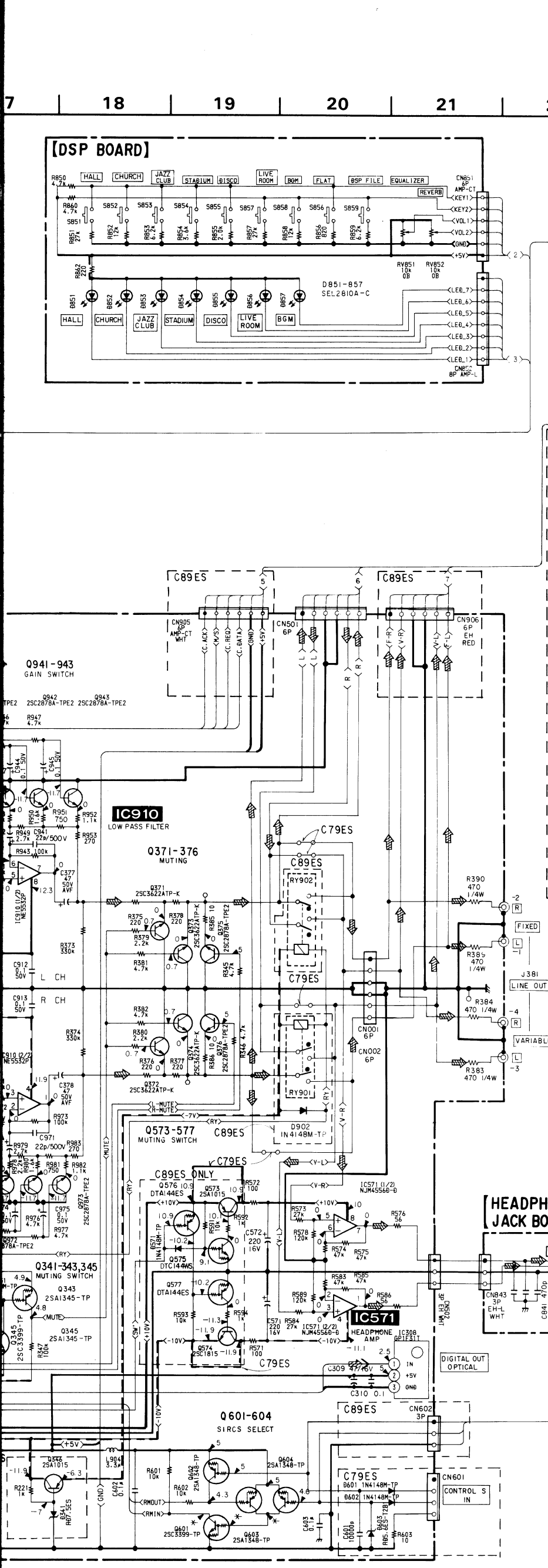
- All capacitors are in μ 50WV or less are no and tantalums.
- All resistors are in Ω specified.
- △ : internal comp

**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

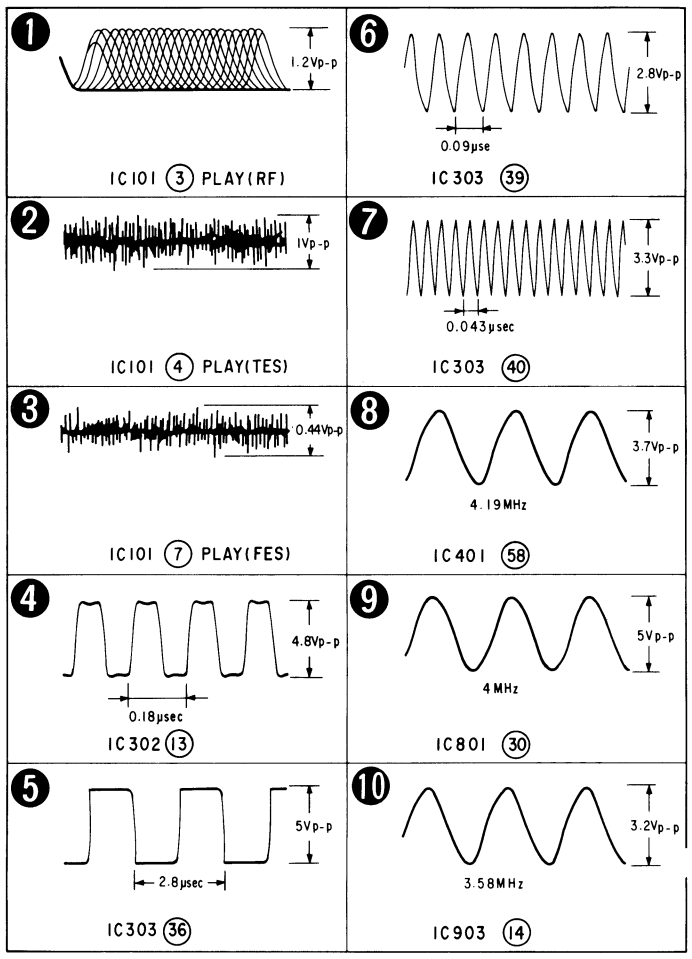



## • Waveforms




**Note:**

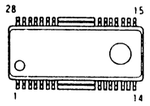
- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.

| Note: | Note: |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

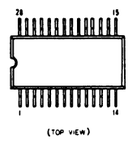
- ▬▬ : B+ Line
- ▬ ▬ : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ✳ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
  ⇛ : digital out
- CND : Canadian model

## 4-6. SEMICONDUCTOR LEAD LAYOUTS

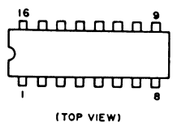
**BA6297AFP**



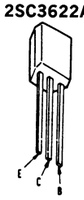

**LH5160N-10L**



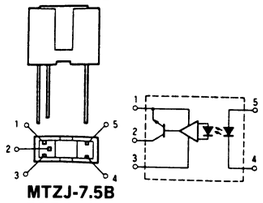

**M5290P-16**



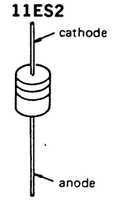

**DTA114ES**
**DTA144ES**
**DTC114ES**
**2SC1815-Y**
**2SC3622A-LK**



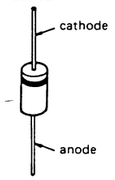

**GP-1A521**



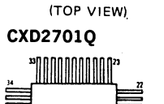

**MTZJ-7.5B**
**RD5.1ES-B2**
**RD5.6ES-B**
**11ES2**




**1N4148M**




**CXA1291P**




**MS51464-10NC**




**NE5532P**
**RC4556D**




**DTA124ES**
**DTC144ES**
**DTC144WS**




**2SA1015-GR**
**2SC2878-AB**




**CXD2500AQ**
**CXD2501Q**
**MSC62408-042GS-V1K**
**μPD75516GF-373-3B9**
**μPD75516GF-374-3B9**



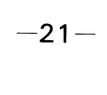

**M37470M4-089SP**




**NJM78L12A**



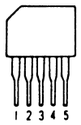

**NJM79L12A**



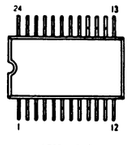

**M5F7807L**



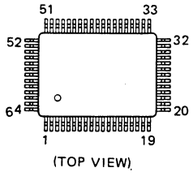

**M5231TL**



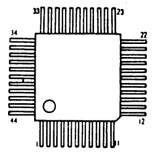

**CXD2560M**



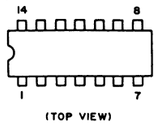

**CXD2562Q**



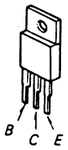

**CXD2701Q**



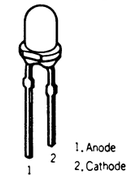
**SN74HCU04N**
**μPD4066BC**



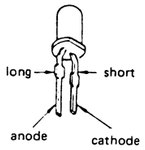

**2SB1094-LK**




**SEL1510C-CD**
**SEL1810A-C**



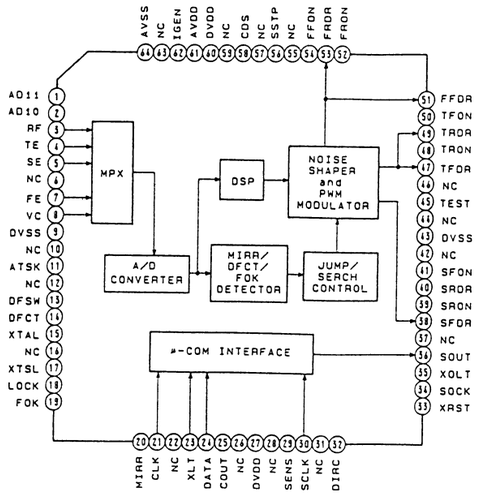

**SEL2810A-C**



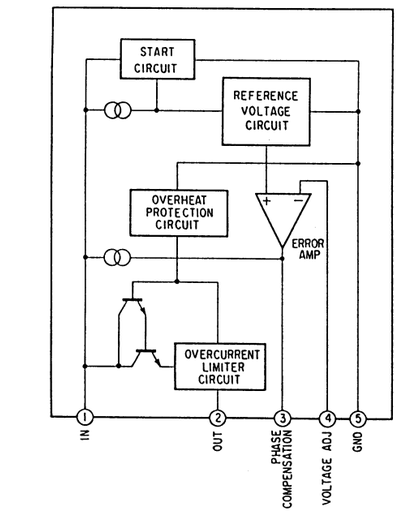



## • IC Block Diagrams

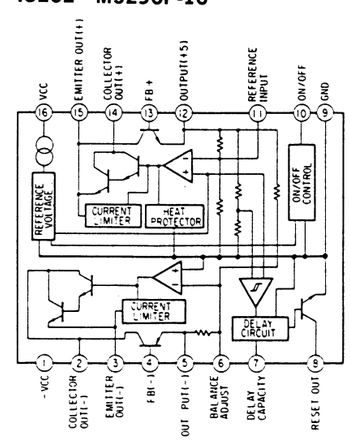
### IC101 CXD2501Q



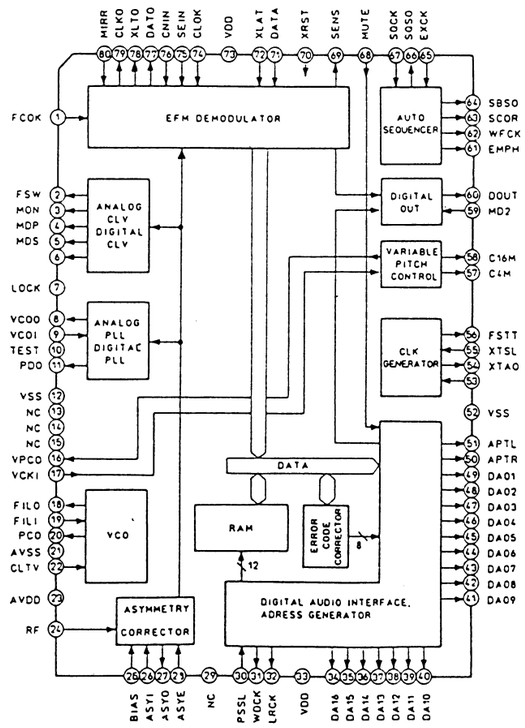

### IC201 M5231TL



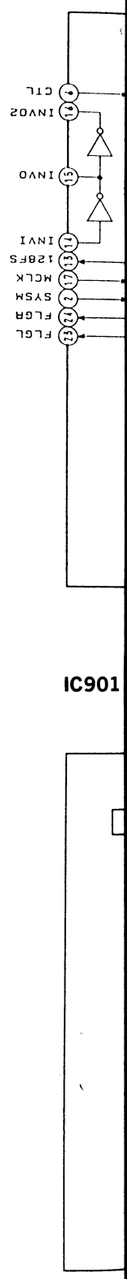

### IC202 M5290P-16




### IC301 CXD2500AQ

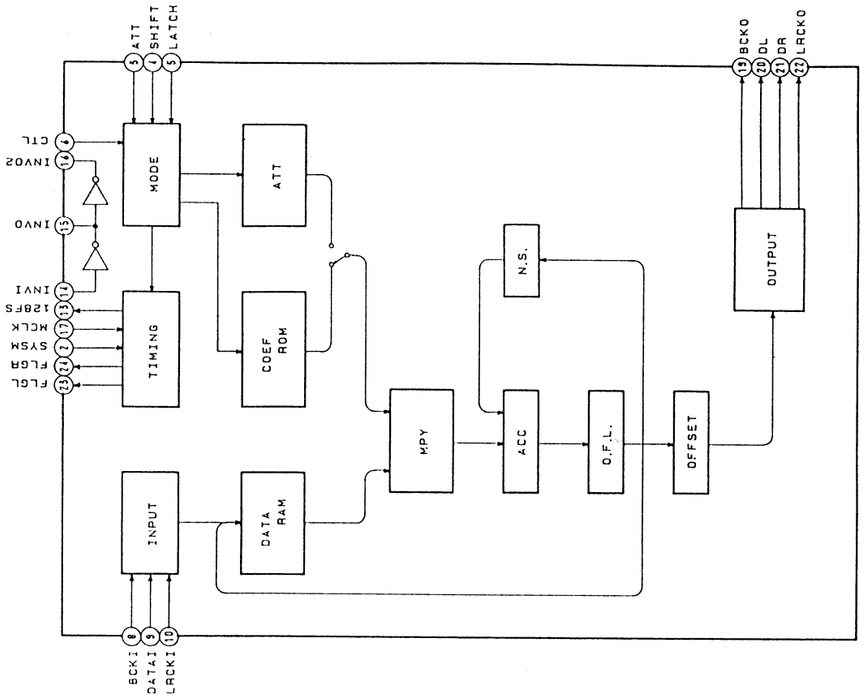



### IC302

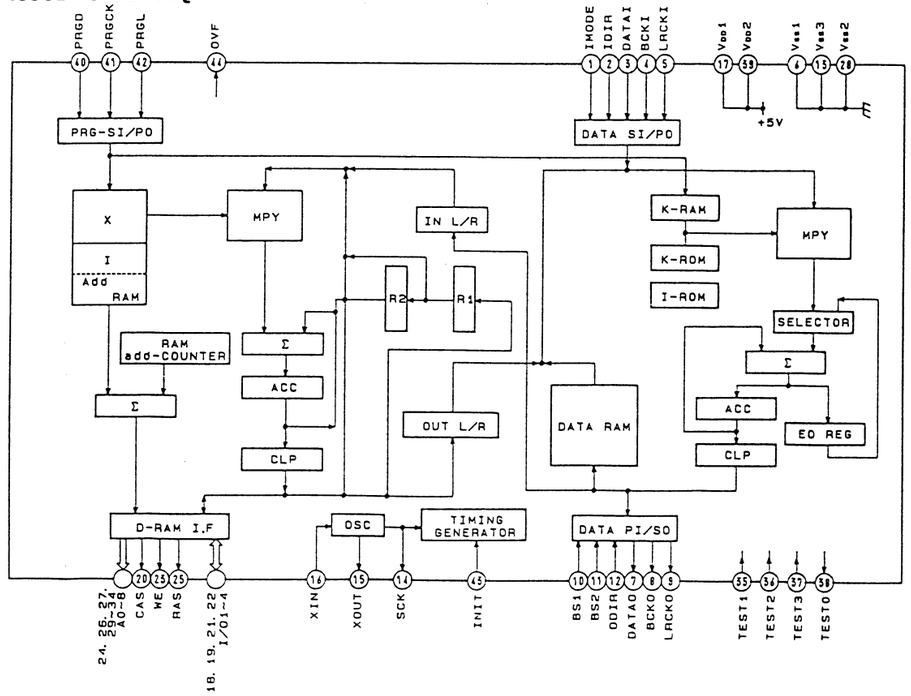



IC901

## IC302 CXD2560M




## IC901 CXD2701Q



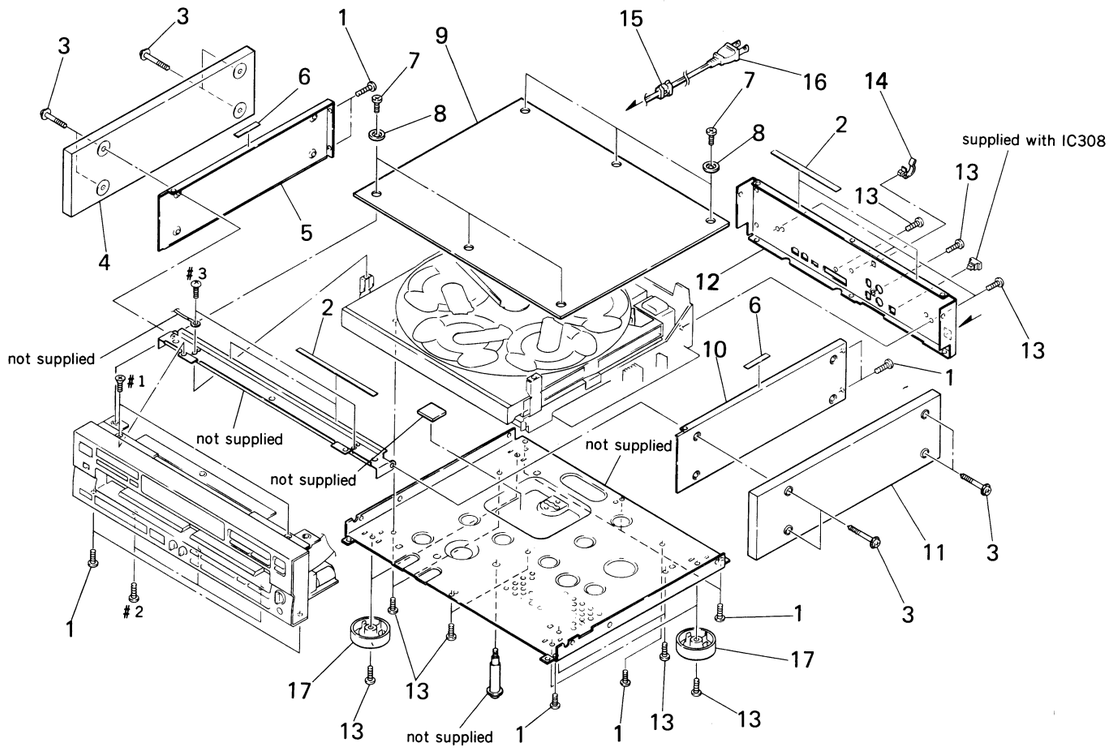



# SECTION 5
# EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

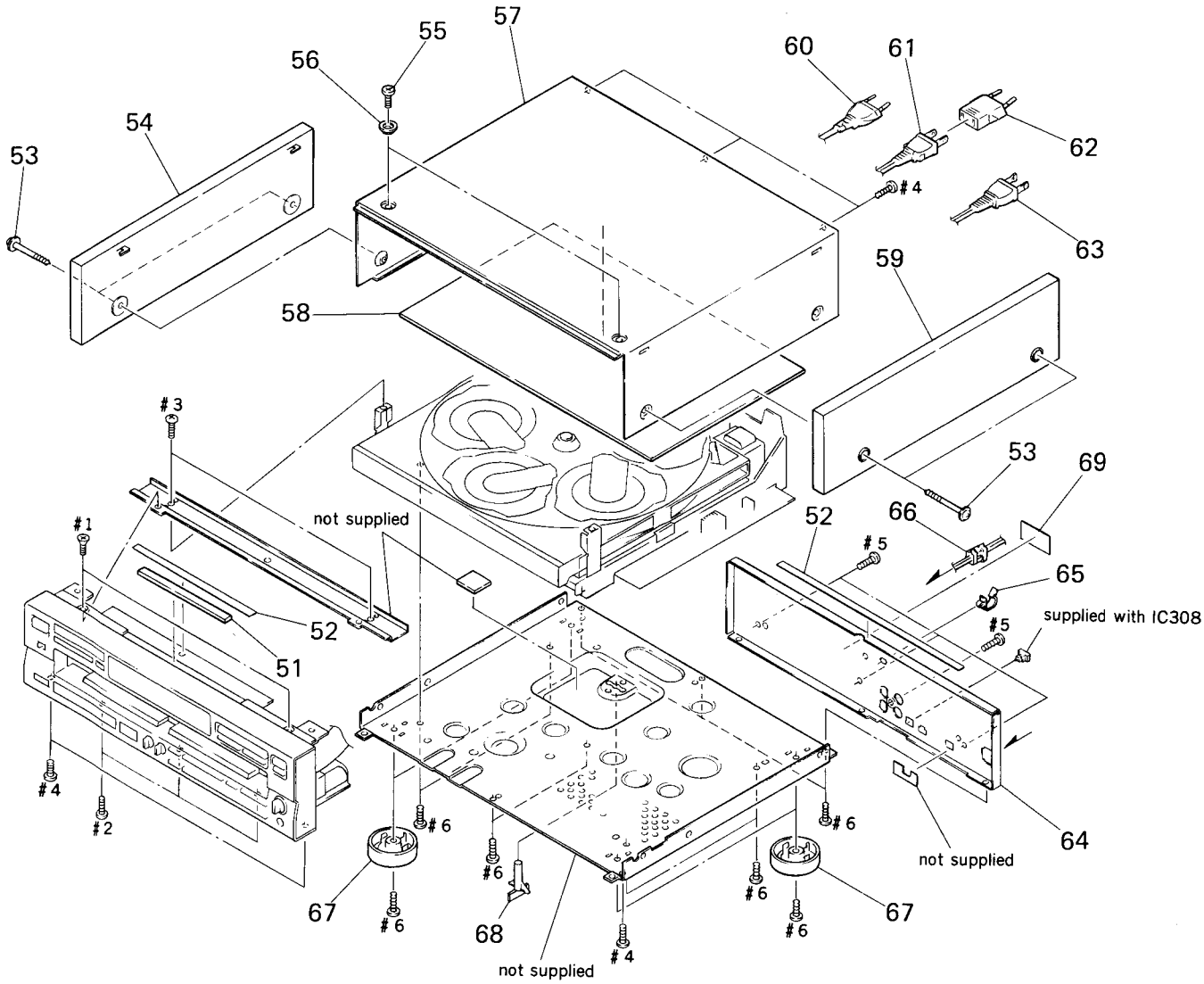
| |
|---|
| The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified. |
| Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

## 5-1. CABINET BLOCK (C89ES)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 3-703-108-31 | SCREW +BV 3X6, S TIGHT | |
| * 2 | 4-927-653-01 | SHEET (F/P) | |
| 3 | 4-933-446-01 | SCREW (SIDE PANEL) | |
| 4 | X-4941-640-1 | PANEL (L) ASSY, SIDE | |
| * 5 | 4-945-428-01 | PLATE (L), SIDE | |
| 6 | 3-831-441-XX | CUSHION (B), CABINET | |
| 7 | 4-924-242-11 | SCREW (M3X6), FLAT HEAD | |
| 8 | 4-928-025-11 | ESCUTCHEON (TOP PLATE) | |
| 9 | 4-945-422-01 | PLATE, TOP | |
| * 10 | 4-945-429-01 | PLATE (R), SIDE | |
| 11 | X-4941-641-1 | PANEL (R) ASSY, SIDE | |
| * 12 | 4-943-718-11 | PANEL, BACK | |
| 13 | 4-951-621-01 | SCREW | |
| * 14 | 4-949-235-01 | HOOK | |
| * 15 | 3-703-244-00 | BUSHING (2104), CORD | |
| ⚠16 | 1-559-583-21 | CORD, POWER | |
| 17 | X-4924-463-1 | FOOT ASSY | |

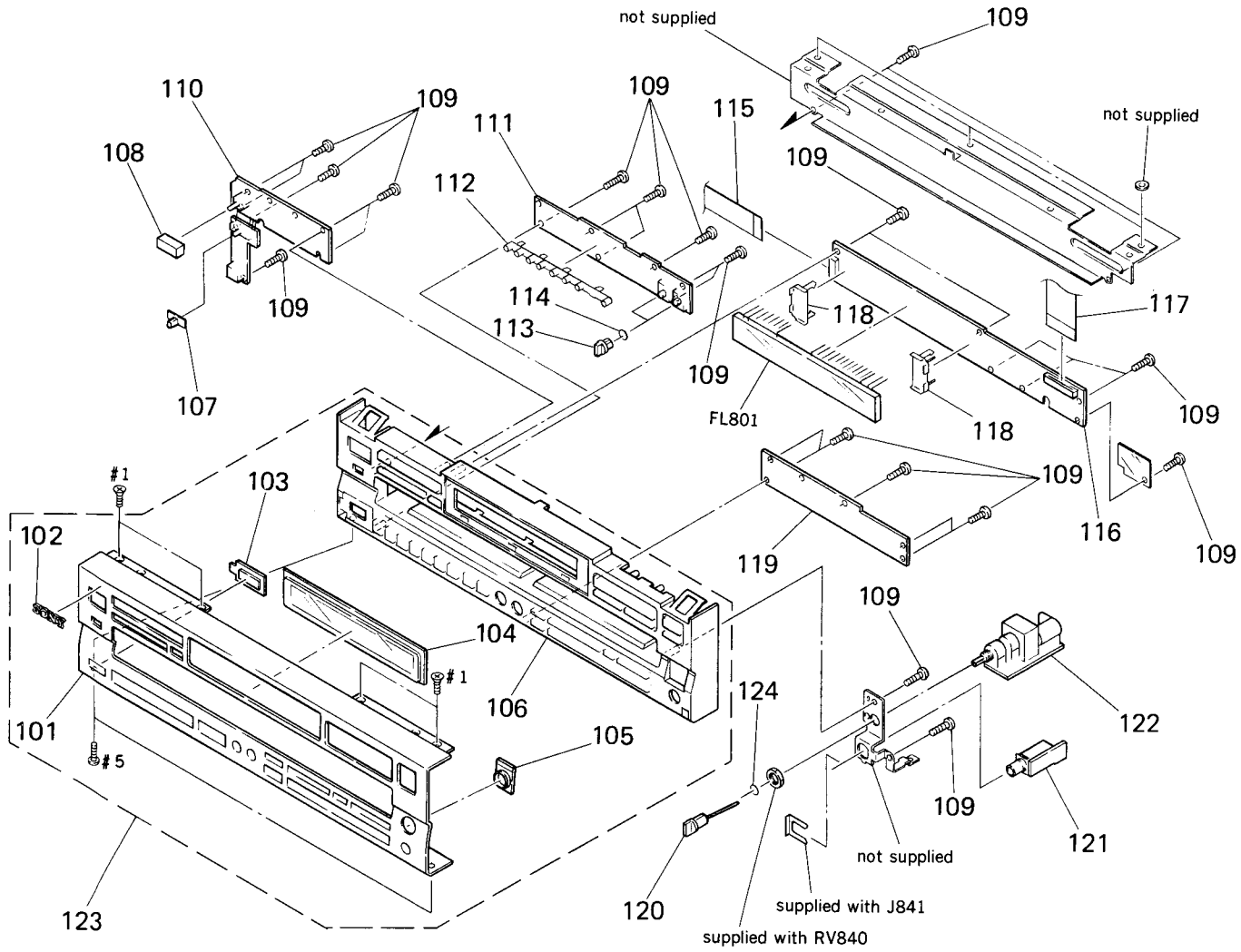
## 5-2. CABINET BLOCK (C79ES)




| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|---|---|

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 51 | 4-929-561-01 | CUSHION (CASE) | |
| * 52 | 4-927-653-01 | SHEET (F/P) | |
| 53 | 4-933-446-01 | SCREW (SIDE PANEL) | |
| 54 | X-4924-465-1 | PANEL (L) ASSY, SIDE | |
| 55 | 4-924-242-11 | SCREW (M3X6), FLAT HEAD | |
| 56 | 4-928-025-11 | ESCUTCHEON (TOP PLATE) | |
| * 57 | 4-937-934-01 | CASE | |
| 58 | A-4675-309-A | REINFORCEMENT (TOP PLATE) ASSY | |
| 59 | X-4924-466-1 | PANEL (R) ASSY, SIDE | |
| ⚠60 | 1-558-568-21 | CORD, POWER (AEP) | |
| ⚠61 | 1-558-181-21 | CORD, POWER (E) | |
| ⚠62 | 1-569-007-11 | ADAPTER, CONVERSION 2P (E) | |
| ⚠63 | 1-559-583-21 | CORD, POWER (US, Canadian) | |
| * 64 | 4-948-876-01 | PANEL, BACK (US, Canadian) | |
| * 64 | 4-948-876-21 | PANEL, BACK (E) | |
| * 64 | 4-948-876-41 | PANEL, BACK (AEP) | |
| * 65 | 4-949-235-01 | HOOK | |
| * 66 | 3-703-244-00 | BUSHING (2104), CORD | |
| 67 | X-4924-463-1 | FOOT ASSY | |
| 68 | 4-937-945-01 | PLATE (TRANSPORT), LOCK | |
| * 69 | 4-941-548-01 | LABEL, CLASS 1 (AEP, E) | |

## 5-3. FRONT PANEL BLOCK

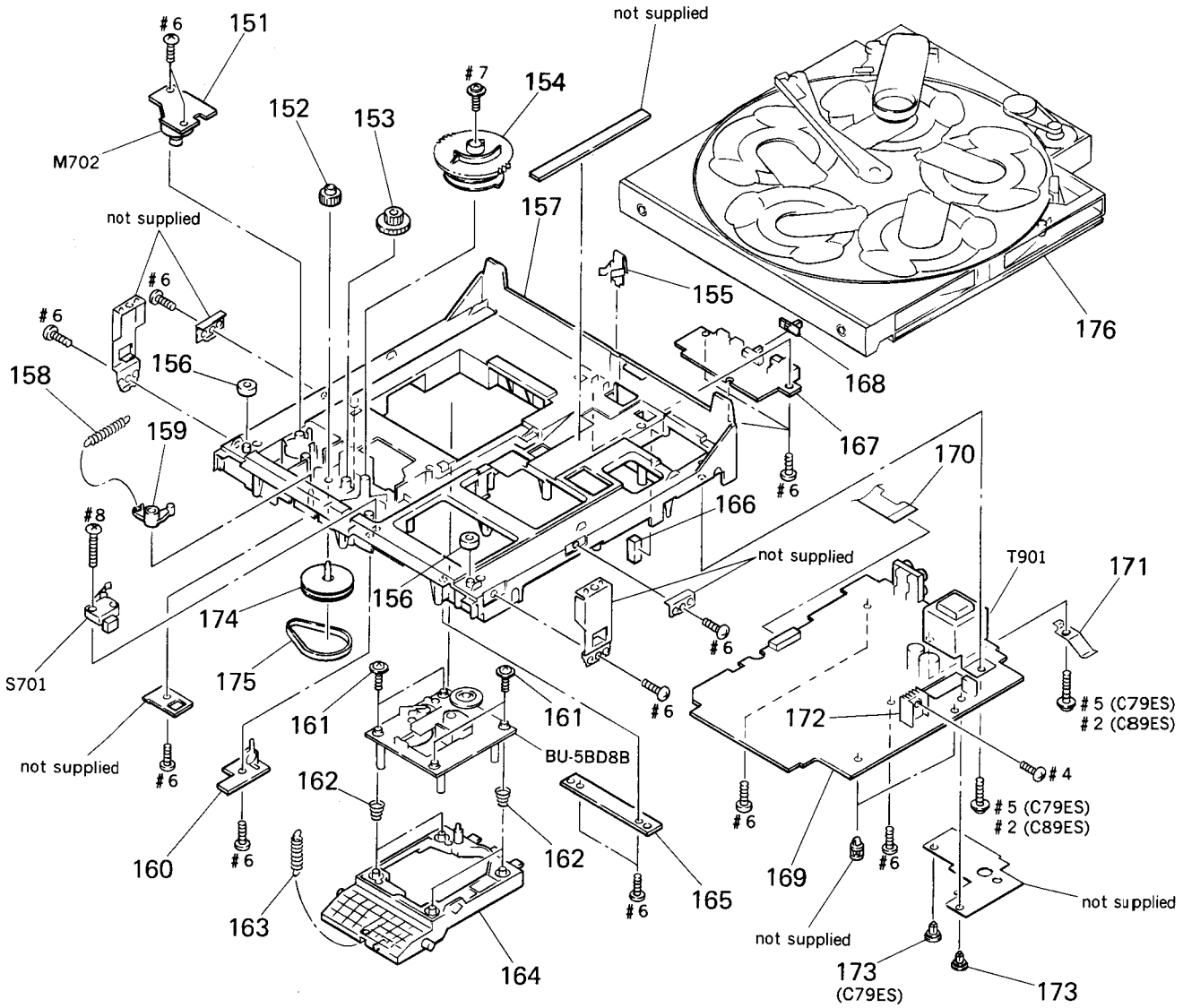



| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | 4-944-307-51 | PANEL, FRONT (C89ES) | |
| 101 | 4-944-307-61 | PANEL, FRONT (C79ES:US, Canadian) | |
| 101 | 4-944-307-81 | PANEL, FRONT (AEP, E) | |
| 102 | 4-908-848-01 | EMBLEM, SONY | |
| 103 | 4-945-432-01 | PLATE, INDICATION | |
| 104 | 4-945-418-11 | PLATE (FL), INDICATION | |
| 105 | 4-945-420-01 | PLATE (HP), INDICATION | |
| 106 | X-4942-604-1 | PANEL (BASE) ASSY | |
| 107 | 4-922-518-11 | KNOB (TIMER) | |
| 108 | 4-922-921-01 | BUTTON (POWER) | |
| 109 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| * 110 | 1-639-900-11 | POWER SW BOARD | |
| * 111 | A-4649-328-A | DSP BOARD, COMPLETE | |
| 112 | 4-945-417-01 | HOLDER (LED) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 113 | 4-944-154-01 | KNOB (DSP) | |
| 114 | 3-354-981-01 | SPRING (SUS), RING | |
| 115 | 1-590-868-11 | WIRE, FLAT TYPE | |
| * 116 | A-4649-313-A | DISPLAY BOARD, COMPLETE | |
| 117 | 1-590-867-11 | WIRE, FLAT TYPE | |
| * 118 | 4-945-419-01 | HOLDER (FL) | |
| * 119 | 1-639-899-11 | KEY BOARD | |
| 120 | A-4604-901-A | KNOB (HP) ASSY | |
| * 121 | 1-639-902-11 | HEADPHONE JACK BOARD | |
| * 122 | 1-639-901-11 | VR BOARD | |
| 123 | A-4660-121-A | PANEL ASSY, FRONT (US, Canadian) | |
| 124 | 4-948-469-01 | SPRING, RING | |
| FL801 | 1-519-714-11 | INDICATOR TUBE, FLUORESCENT | |

| The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |
|---|---|

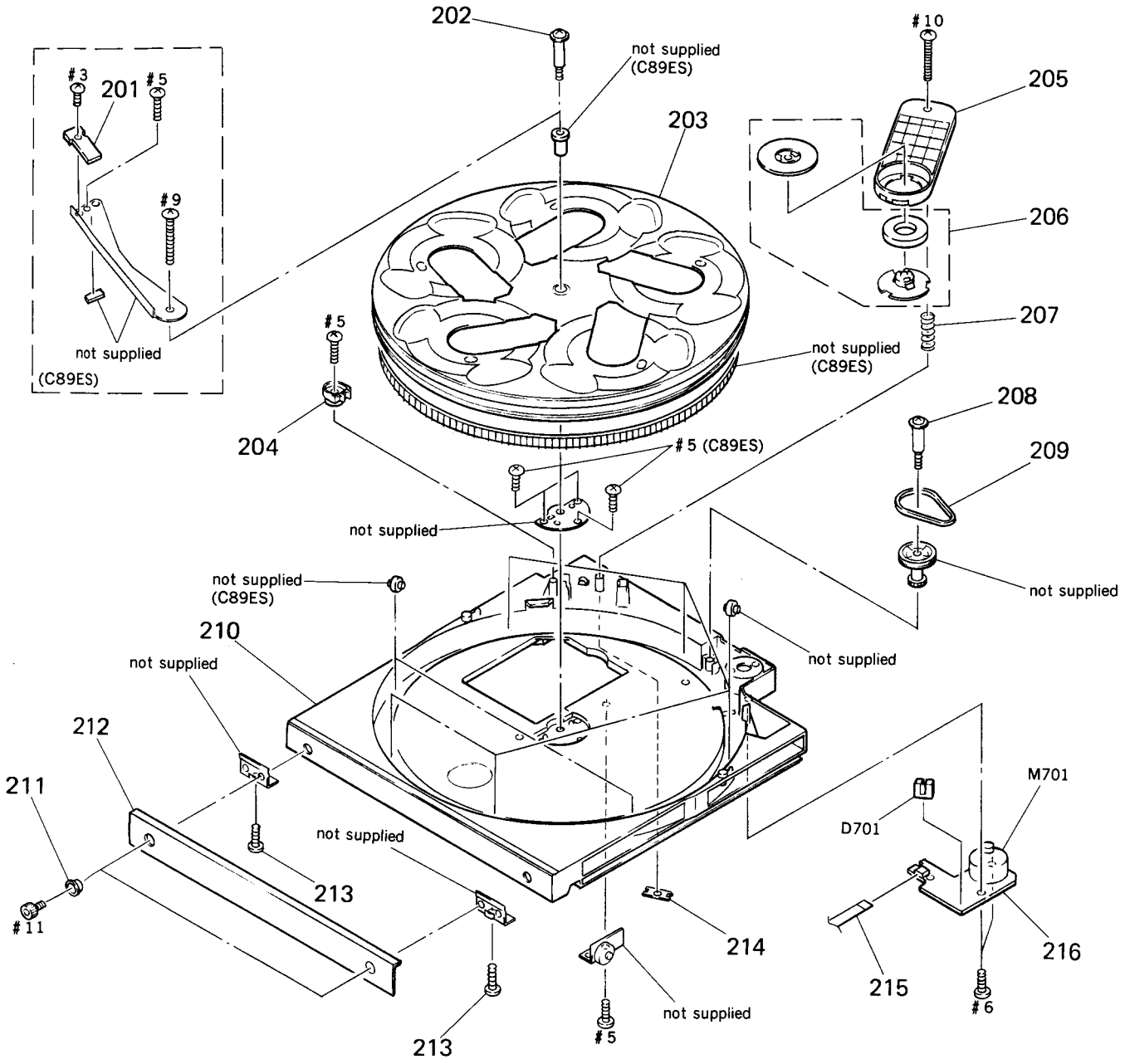
## 5-4. CHASSIS BLOCK




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 151 | 1-638-730-11 | LOADING MOTOR BOARD | |
| 152 | 4-934-375-01 | GEAR (LOADING B) | |
| 153 | 4-934-381-01 | GEAR (LOADING C) | |
| 154 | 4-934-391-01 | GEAR (LOADING A) | |
| * 155 | 4-943-996-01 | SPRING, LEAF | |
| * 156 | 4-951-619-01 | CUSHION (A) | |
| * 157 | 4-943-997-01 | CHASSIS | |
| 158 | 4-924-412-01 | SPRING (B), TENSION | |
| 159 | 4-917-519-01 | LEVER, SET | |
| * 160 | 1-638-731-11 | OPEN/UP SW BOARD | |
| 161 | 4-933-134-01 | SCREW (+PTPWH M2.6X6) | |
| 162 | 4-949-385-01 | SPRING (D), COIL | |
| 163 | 4-937-911-01 | SPRING, TENSION | |
| * 164 | 4-934-373-01 | BRACKET (BU) | |
| * 165 | 1-644-556-11 | RELAY BOARD | |
| 166 | 9-911-815-03 | CUSHION (C89ES) | |
| * 167 | A-4617-872-A | CHAIN BOARD, COMPLETE (C89ES) | |
| 168 | 4-922-518-11 | KNOB (TIMER) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 169 | A-4649-312-A | MAIN BOARD, COMPLETE (E) | |
| * 169 | A-4649-314-A | MAIN BOARD, COMPLETE (C89ES) | |
| * 169 | A-4649-316-A | MAIN BOARD, COMPLETE (C79ES:US, Canadian) | |
| * 169 | A-4649-317-A | MAIN BOARD, COMPLETE (AEP) | |
| 170 | 1-694-003-11 | JAMPER, FILM (WITH TARMINAL) | |
| * 171 | 4-930-512-01 | PLATE, GROUND | |
| * 172 | 4-363-146-00 | HEAT SILK, V.OUT | |
| 173 | 3-531-576-11 | RIVET | |
| 174 | 4-944-491-01 | PULLEY (LOADING A) | |
| 175 | 4-949-430-01 | BELT (G RIB) | |
| 176 | A-4660-116-A | TRAY ASSY (C89ES) | |
| 176 | A-4660-122-A | TRAY ASSY (C79ES) | |
| M702 | A-4604-871-A | MOTOR ASSY, LOADING | |
| S701 | 1-572-713-11 | SWITCH, PUSH (WITH CONNECTOR) (DOWN) | |
| ⚠T901 | 1-450-542-11 | TRANSFORMER, POWER (US, Canadian) | |
| ⚠T901 | 1-450-543-11 | TRANSFORMER, POWER (AEP) | |
| ⚠T901 | 1-450-544-11 | TRANSFORMER, POWER (E) | |

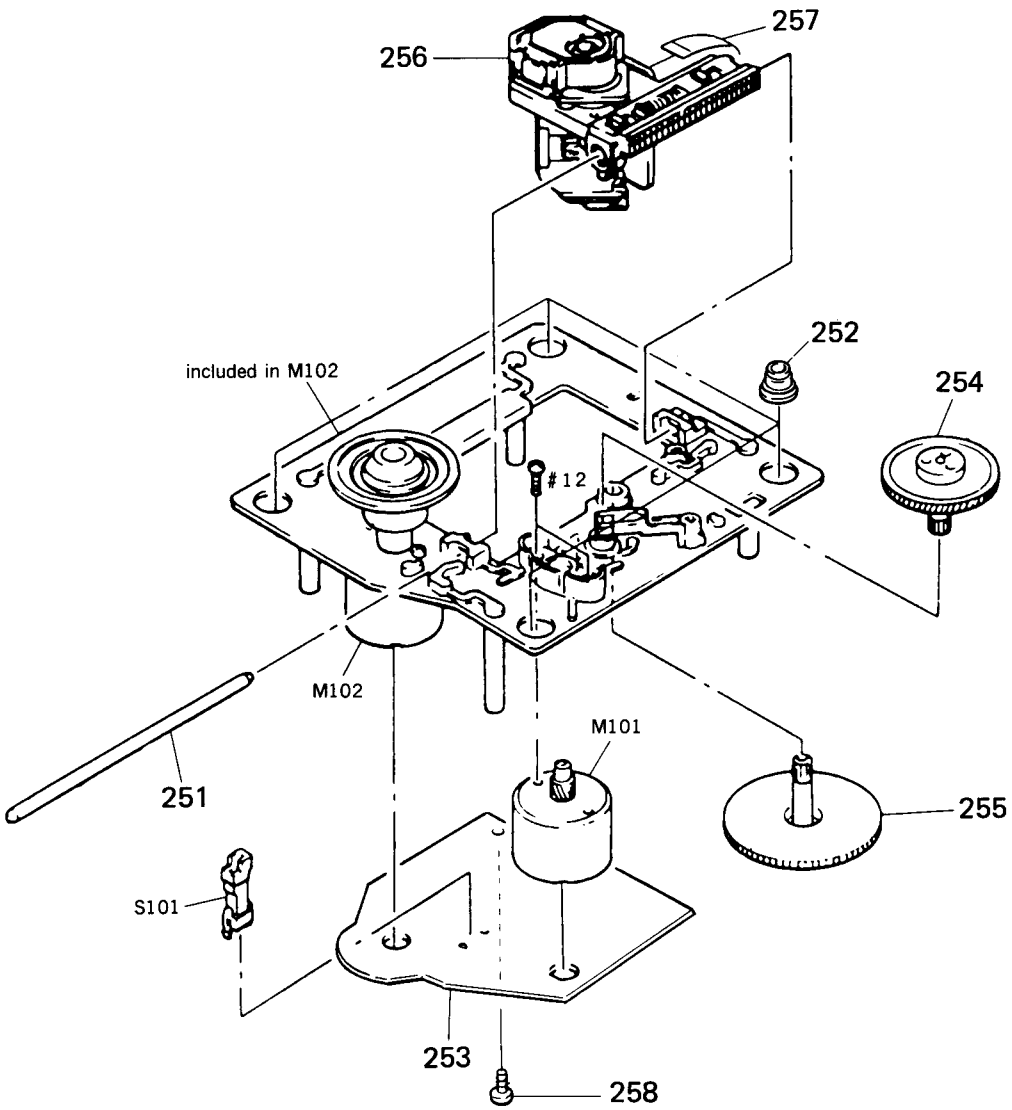
## 5-5. TRAY BLOCK




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 201 | 1-644-769-12 | DISK TABLE BOARD (C89ES) | |
| 202 | 4-926-384-01 | SCREW, STEP (C79ES) | |
| 203 | 4-926-383-11 | TABLE (B), DISK (C79ES) | |
| 203 | 4-944-305-01 | TABLE (B), DISC (C89ES) | |
| * 204 | 4-949-226-01 | PLATE, LOCK | |
| * 205 | 4-930-506-02 | BRACKET (PRESS PULLEY) | |
| * 206 | 1-452-538-11 | MAGNET | |
| 207 | 4-926-395-01 | SPRING, COMPRESSION | |
| 208 | 4-923-597-01 | SCREW, STEP | |
| 209 | 4-926-399-01 | BELT | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 210 | 4-944-777-02 | TABLE (A), DISC | |
| 211 | 4-934-307-01 | ESCUTCHEON | |
| 212 | 4-944-779-21 | PANEL (TABLE) (C89ES) | |
| 212 | 4-944-779-31 | PANEL (TABLE) (C79ES) | |
| 213 | 4-928-635-01 | SCREW, +BV (2.6X8) TAPPING | |
| * 214 | 4-926-388-01 | BRACKET (ADJUSTMENT) | |
| 215 | 1-590-849-11 | WIRE, FLAT TYPE (5 CORE) | |
| * 216 | 1-638-729-11 | TABLE MOTOR BOARD | |
| D701 | 8-719-970-19 | DIODE GP-1A521 | |
| M701 | A-4604-585-A | MOTOR ASSY, ROTARY | |

## 5-6. OPTICAL PICK-UP BLOCK (BU-5BD8B)




| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 251 | 4-917-565-01 | SHAFT, SLED | |
| 252 | 4-951-940-01 | INSULATOR (BU) | |
| * 253 | A-4649-199-A | BD BOARD, COMPLETE | |
| 254 | 4-917-567-01 | GEAR (M) | |
| 255 | 4-917-564-01 | GEAR (P), FLATNESS | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| ⚠256 | 8-848-144-11 | DEVICE, OPTICAL KSS-240A | |
| 257 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | |
| 258 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| M101 | X-4917-504-1 | MOTOR ASSY, SLED | |
| M102 | X-4917-523-3 | MOTOR ASSY, SPINDLE | |
| S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT) | |

BD CHAIN

# SECTION 6
# ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-4649-199-A | BD BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C102 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C103 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C104 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C105 | 1-135-155-21 | TANTALUM CHIP | 4.7uF | 10% | 16V |
| C106 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C107 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C108 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C112 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C151 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C152 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C153 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C154 | 1-164-336-11 | CERAMIC CHIP | 0.33uF | | 25V |
| C155 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C156 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C157 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C158 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C159 | 1-163-023-00 | CERAMIC CHIP | 0.015uF | 5% | 50V |
| C160 | 1-163-019-00 | CERAMIC CHIP | 0.0068uF | 10% | 50V |
| C181 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| | | < CONNECTOR > | | | |
| CN101 | 1-568-861-11 | SOCKET, CONNECTOR 18P | | | |
| CN102 | 1-568-795-11 | SOCKET, CONNECTOR 12P | | | |
| | | < IC > | | | |
| IC101 | 8-752-344-48 | IC CXD2501Q | | | |
| IC102 | 8-759-071-79 | IC BA6297AFP | | | |
| | | < RESISTOR > | | | |
| R101 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R102 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R103 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R104 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R105 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R112 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R113 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R114 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R117 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R118 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R121 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R122 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R151 | 1-216-070-00 | METAL CHIP | 7.5K | 5% | 1/10W |
| R152 | 1-216-070-00 | METAL CHIP | 7.5K | 5% | 1/10W |
| R153 | 1-216-070-00 | METAL CHIP | 7.5K | 5% | 1/10W |
| R154 | 1-216-070-00 | METAL CHIP | 7.5K | 5% | 1/10W |
| R155 | 1-216-070-00 | METAL CHIP | 7.5K | 5% | 1/10W |
| R156 | 1-216-070-00 | METAL CHIP | 7.5K | 5% | 1/10W |
| R157 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R158 | 1-216-076-00 | METAL CHIP | 13K | 5% | 1/10W |
| R159 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R160 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R161 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W |
| R162 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R163 | 1-216-308-00 | METAL CHIP | 4.7 | 5% | 1/10W |
| | | < SWITCH > | | | |
| S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT) | | | |
| ********** | | | | | |
| * | A-4617-872-A | CHAIN BOARD, COMPLETE (C89ES) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C751 | 1-126-022-11 | ELECT | 47uF | 20% | 16V (C89ES) |
| C752 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V (C89ES) |
| C755 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V (C89ES) |
| C756 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V (C89ES) |
| C757 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V (C89ES) |
| C758 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V (C89ES) |
| C759 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V (C89ES) |
| C760 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V (C89ES) |
| C761 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V (C89ES) |
| C762 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V (C89ES) |
| C763 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V (C89ES) |

**CHAIN** | **DISK TABLE** | **DISPLAY** | **DSP**

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| C764 | 1-164-159-11 | CERAMIC 0.1uF | 50V (C89ES) |
| | | < CONNECTOR > | |
| * CN751 | 1-564-521-11 | PLUG, CONNECTOR 6P (C89ES) | |
| * CN752 | 1-568-944-11 | PIN, CONNECTOR 6P (C89ES) | |
| * CN753 | 1-564-518-11 | PLUG, CONNECTOR 3P (C89ES) | |
| * CN754 | 1-566-859-11 | SOCKET, CONNECTOR 15P (SERIAL CHAIN CONTROL) (C89ES) | |
| CN755 | 1-566-213-11 | PIN, CONNECTOR 4P (CONTROL S IN) (C89ES) | |
| CN756 | 1-566-213-11 | PIN, CONNECTOR 4P (CONTROL S OUT) (C89ES) | |
| | | < DIODE > | |
| D751 | 8-719-987-63 | DIODE 1N4148M (C89ES) | |
| D752 | 8-719-987-63 | DIODE 1N4148M (C89ES) | |
| D753 | 8-719-987-63 | DIODE 1N4148M (C89ES) | |
| D754 | 8-719-109-87 | DIODE RD5.6ES-B (C89ES) | |
| D755 | 8-719-109-87 | DIODE RD5.6ES-B (C89ES) | |
| D756 | 8-719-109-87 | DIODE RD5.6ES-B (C89ES) | |
| D757 | 8-719-109-87 | DIODE RD5.6ES-B (C89ES) | |
| D758 | 8-719-987-63 | DIODE 1N4148M (C89ES) | |
| D759 | 8-719-987-63 | DIODE 1N4148M (C89ES) | |
| | | < IC > | |
| IC751 | 8-759-000-49 | IC MC14066BCP (C89ES) | |
| | | < RESISTOR > | |
| R751 | 1-249-433-11 | CARBON 22K 5% 1/4W (C89ES) | |
| R752 | 1-249-433-11 | CARBON 22K 5% 1/4W (C89ES) | |
| R753 | 1-249-433-11 | CARBON 22K 5% 1/4W (C89ES) | |
| R754 | 1-249-409-11 | CARBON 220 5% 1/4W (C89ES) | |
| R755 | 1-249-409-11 | CARBON 220 5% 1/4W (C89ES) | |
| R756 | 1-249-409-11 | CARBON 220 5% 1/4W (C89ES) | |
| R757 | 1-249-393-11 | CARBON 10 5% 1/4W (C89ES) | |
| R758 | 1-249-429-11 | CARBON 10K 5% 1/4W (C89ES) | |
| R759 | 1-249-429-11 | CARBON 10K 5% 1/4W (C89ES) | |
| R760 | 1-249-393-11 | CARBON 10 5% 1/4W (C89ES) | |
| R765 | 1-249-402-11 | CARBON 56 5% 1/4W (C89ES) | |
| R766 | 1-249-402-11 | CARBON 56 5% 1/4W (C89ES) | |
| R767 | 1-249-402-11 | CARBON 56 5% 1/4W (C89ES) | |
| R768 | 1-249-402-11 | CARBON 56 5% 1/4W (C89ES) | |
| | | < SWITCH > | |
| S751 | 1-570-707-21 | SWITCH, SLIDE (MODE) (C89ES) | |

**********

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | 1-644-769-12 | DISK TABLE BOARD (C89ES) ********** | |
| | | < CONNECTOR > | |
| * CN410 | 1-564-517-11 | PLUG, CONNECTOR 2P (C89ES) | |
| | | < RESISTOR > | |
| R999 | 1-249-417-11 | CARBON 1K 5% 1/4W (C89ES) | |

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| | | | |
|---|---|---|---|
| * | A-4649-131-A | DISPLAY BOARD, COMPLETE ********** | |
| * | A-4649-328-A | DSP BOARD, COMPLETE ********** | |
| | 4-937-949-01 | HOLDER, LED | |
| | 4-945-417-01 | HOLDER (LED) | |
| * | 4-945-419-01 | HOLDER (FL) | |
| | | < CAPACITOR > | |
| C801 | 1-124-584-00 | ELECT 100uF 20% 10V | |
| C802 | 1-164-159-11 | CERAMIC 0.1uF 50V | |
| C803 | 1-164-159-11 | CERAMIC 0.1uF 50V | |
| | | < CONNECTOR > | |
| * CN801 | 1-568-865-11 | SOCKET, CONNECTOR 23P | |
| * CN803 | 1-568-857-11 | SOCKET, CONNECTOR 14P | |
| | | < DIODE > | |
| D801 | 8-719-987-63 | DIODE 1N4148M | |
| D802 | 8-719-987-63 | DIODE N4148M | |
| D803 | 8-719-987-63 | DIODE 1N4148M | |
| D804 | 8-719-987-63 | DIODE 1N4148M | |
| D805 | 8-719-987-63 | DIODE 1N4148M | |
| D806 | 8-719-987-63 | DIODE 1N4148M | |
| D807 | 8-719-303-28 | DIODE SEL1810A-C (II) | |
| D808 | 8-719-310-59 | LED SEL1510C (▶) | |
| D851 | 8-719-301-52 | LED SEL2810A-C (HALL) | |
| D852 | 8-719-301-52 | LED SEL2810A-C (CHURCH) | |
| D853 | 8-719-301-52 | LED SEL2810A-C (JAZZ CLUB) | |
| D854 | 8-719-301-52 | LED SEL2810A-C (STADIUM) | |
| D855 | 8-719-301-52 | LED SEL2810A-C (DISCO) | |
| D856 | 8-719-301-52 | LED SEL2810A-C (LIVE ROOM) | |
| D857 | 8-719-301-52 | LED SEL2810A-C (BGM) | |
| | | < FLUORESCENT INDICATOR > | |
| FL801 | 1-519-714-11 | INDICATOR TUBE, FLUORESCENT | |

# DISPLAY | DSP | HEADPHONE JACK | KEY | POWER SW | VR

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < IC > | |
| IC801 | 8-759-067-11 | IC MSC62408-042GS-V1K | |
| | | < TRANSISTOR > | |
| Q801 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q802 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q803 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q804 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| | | < RESISTOR > | |
| R801 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R802 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R803 | 1-247-903-00 | CARBON 1M 5% 1/4W | |
| R804 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R805 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R806 | 1-249-412-11 | CARBON 390 5% 1/4W | |
| R807 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| R808 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R809 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R810 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R811 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R812 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R850 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R851 | 1-249-434-11 | CARBON 27K 5% 1/4W | |
| R852 | 1-249-430-11 | CARBON 12K 5% 1/4W | |
| R853 | 1-247-850-11 | CARBON 6.2K 5% 1/4W | |
| R854 | 1-247-844-11 | CARBON 3.6K 5% 1/4W | |
| R855 | 1-247-838-00 | CARBON 2K 5% 1/4W | |
| R856 | 1-249-416-11 | CARBON 820 5% 1/4W | |
| R857 | 1-249-434-11 | CARBON 27K 5% 1/4W | |
| R858 | 1-249-430-11 | CARBON 12K 5% 1/4W | |
| R859 | 1-247-850-11 | CARBON 6.2K 5% 1/4W | |
| R860 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R862 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| | | < VARIABLE RESISTOR > | |
| RV851 | 1-241-514-11 | RES, VAR, CARBON 10K (EQUALIZER) | |
| RV852 | 1-241-514-11 | RES, VAR, CARBON 10K (REVEB) | |
| | | < SWITCH > | |
| S801 | 1-554-303-21 | SWITCH, TACTILE (▶) | |
| S802 | 1-554-303-21 | SWITCH, TACTILE (❚❚) | |
| S803 | 1-554-303-21 | SWITCH, TACTILE (■) | |
| S804 | 1-554-303-21 | SWITCH, TACTILE (⏮) | |
| S805 | 1-554-303-21 | SWITCH, TACTILE (⏭) | |
| S806 | 1-554-303-21 | SWITCH, TACTILE (◀◀) | |
| S807 | 1-554-303-21 | SWITCH, TACTILE (▶▶) | |
| S808 | 1-554-303-21 | SWITCH, TACTILE (OPEN/CLOSE) | |
| S809 | 1-554-303-21 | SWITCH, TACTILE (DISC SKIP) | |
| S851 | 1-554-303-21 | SWITCH, TACTILE (HALL) | |
| S852 | 1-554-303-21 | SWITCH, TACTILE (CHURCH) | |
| S853 | 1-554-303-21 | SWITCH, TACTILE (JAZZ CLUB) | |
| S854 | 1-554-303-21 | SWITCH, TACTILE (STADIUM) | |
| S855 | 1-554-303-21 | SWITCH, TACTILE (DISCO) | |
| S856 | 1-554-303-21 | SWITCH, TACTILE (FLAT) | |
| S857 | 1-554-303-21 | SWITCH, TACTILE (LIVE ROOM) | |
| S858 | 1-554-303-21 | SWITCH, TACTILE (BGM) | |
| S859 | 1-554-303-21 | SWITCH, TACTILE (DSP FILE) | |
| | | < VIBRATOR > | |
| X801 | 1-577-358-21 | VIBRATOR, CERAMIC (4MHz) | |
| ********** | | | |
| * | 1-639-902-11 | HEADPHONE JACK BOARD | |
| | | ********** | |
| * | 1-639-899-11 | KEY BOARD | |
| | | ********* | |
| * | 1-639-900-11 | POWER SW BOARD | |
| | | ********** | |
| * | 1-639-901-11 | VR BOARD | |
| | | ******** | |
| | | < CAPACITOR > | |
| C841 | 1-162-290-31 | CERAMIC 470PF 10% 50V | |
| C842 | 1-162-290-31 | CERAMIC 470PF 10% 50V | |
| C843 | 1-164-159-11 | CERAMIC 0.1uF 50V | |
| | | < CONNECTOR > | |
| * CN811 | 1-573-102-11 | SOCKET, CONNECTOR 14P | |
| * CN843 | 1-564-518-11 | PLUG, CONNECTOR 3P | |
| | | < IC > | |
| IC811 | 8-741-100-48 | IC SBX1610-59 | |
| | | < JACK > | |
| J841 | 1-568-519-41 | JACK, LARGE TYPE (PHONES) | |
| | | < VARIABLE RESISTOR > | |
| RV840 | 1-241-513-11 | RES, VAR, CARBON 10KX3 (LINE OUT PHONE LEVEL) | |
| | | < SWITCH > | |
| S811 | 1-554-303-21 | SWITCH, TACTILE (DISC 1) | |
| S812 | 1-554-303-21 | SWITCH, TACTILE (DISC 2) | |
| S813 | 1-554-303-21 | SWITCH, TACTILE (DISC 3) | |
| S814 | 1-554-303-21 | SWITCH, TACTILE (DISC 4) | |
| S815 | 1-554-303-21 | SWITCH, TACTILE (DISC 5) | |

HEADPHONE JACK | KEY | POWER SW | VR | LOADING MOTOR | TABLE MOTOR | OPEN/UP SW | MAIN | RELAY

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| S816 | 1-554-303-21 | SWITCH, TACTILE (CONTINUE) | |
| S817 | 1-554-303-21 | SWITCH, TACTILE (SHUFFLE) | |
| S818 | 1-554-303-21 | SWITCH, TACTILE (PROGRAM) | |
| S819 | 1-554-303-21 | SWITCH, TACTILE (BANK) | |
| S820 | 1-554-303-21 | SWITCH, TACTILE (TIME/MEMO) | |
| S821 | 1-572-714-11 | SWITCH, PUSH (POWER) | |
| S822 | 1-570-157-51 | SWITCH, SLIDE (TIMER) | |
| S860 | 1-554-303-21 | SWITCH, TACTILE (PEAK SEARCH) | |
| S861 | 1-554-303-21 | SWITCH, TACTILE (FADER) | |
| S862 | 1-554-303-21 | SWITCH, TACTILE (CLEAR) | |
| S863 | 1-554-303-21 | SWITCH, TACTILE (CHECK) | |
| S864 | 1-554-303-21 | SWITCH, TACTILE (MUSIC SCAN) | |
| S865 | 1-554-303-21 | SWITCH, TACTILE (REPEAT) | |
| S866 | 1-554-303-21 | SWITCH, TACTILE (5) | |
| S867 | 1-554-303-21 | SWITCH, TACTILE (4) | |
| S868 | 1-554-303-21 | SWITCH, TACTILE (3) | |
| S869 | 1-554-303-21 | SWITCH, TACTILE (2) | |
| S870 | 1-554-303-21 | SWITCH, TACTILE (>10) | |
| S871 | 1-554-303-21 | SWITCH, TACTILE (1) | |
| S872 | 1-554-303-21 | SWITCH, TACTILE (EDIT/TIME FADE) | |
| S873 | 1-554-303-21 | SWITCH, TACTILE (10) | |
| S874 | 1-554-303-21 | SWITCH, TACTILE (9) | |
| S875 | 1-554-303-21 | SWITCH, TACTILE (8) | |
| S876 | 1-554-303-21 | SWITCH, TACTILE (6) | |
| S877 | 1-554-303-21 | SWITCH, TACTILE (FILE) | |
| S878 | 1-554-303-21 | SWITCH, TACTILE (LEVEL FILE) | |
| S879 | 1-554-303-21 | SWITCH, TACTILE (7) | |
| S880 | 1-554-303-21 | SWITCH, TACTILE (ERASE) | |
| ********** | | | |
| * | 1-638-730-11 | LOADING MOTOR BOARD | |
| | | ********** | |
| * | 1-638-729-11 | TABLE MOTOR BOARD | |
| | | ********** | |
| * | 1-638-731-11 | OPEN/UP SW BOARD | |
| | | ********** | |
| | | < CAPACITOR > | |
| C704 | 1-161-375-00 | CERAMIC 0.0022uF 20% 50V | |
| C705 | 1-161-375-00 | CERAMIC 0.0022uF 20% 50V | |
| | | < CONNECTOR > | |
| CN705 | 1-573-383-11 | PIN, CONNECTOR (PC BOARD) 2P | |
| * CN707 | 1-573-044-11 | SOCKET, CONNECTOR 5P | |
| | | < DIODE > | |
| D701 | 8-719-970-19 | DIODE GP1A521 | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < RESISTOR > | |
| R701 | 1-249-416-11 | CARBON 820 5% 1/4W | |
| | | < SWITCH > | |
| S702 | 1-571-300-21 | SWITCH, ROTARY (OPEN/UP) | |
| ********** | | | |
| * | A-4649-312-A | MAIN BOARD, COMPLETE (E) | |
| * | A-4649-314-A | MAIN BOARD, COMPLETE (C89ES) | |
| * | A-4649-316-A | MAIN BOARD, COMPLETE (C79ES:US, Canadian) | |
| * | A-4649-317-A | MAIN BOARD, COMPLETE (AEP) | |
| | | ********** | |
| * | 1-644-556-11 | RELAY BOARD | |
| | | ********** | |
| | 4-352-844-01 | PIN, LEAD, COATING | |
| * | 4-363-146-00 | HEAT SINK, V.OUT | |
| | 7-682-547-09 | SCREW +BVTT 3X6 (S) | |
| | 8-759-981-85 | IC RC4556D | |
| | | < CAPACITOR > | |
| C201 | 1-124-572-11 | ELECT 100uF 20% 63V | |
| C202 | 1-126-163-11 | ELECT 4.7uF 20% 50V | |
| C203 | 1-124-556-11 | ELECT 2200uF 20% 16V | |
| C204 | 1-126-937-11 | ELECT 4700uF 20% 16V | |
| C205 | 1-126-163-11 | ELECT 4.7uF 20% 50V | |
| C206 | 1-126-059-11 | ELECT 10uF 20% 50V | |
| C207 | 1-126-059-11 | ELECT 10uF 20% 50V | |
| C208 | 1-126-022-11 | ELECT 47uF 20% 16V | |
| C210 | 1-126-101-11 | ELECT 100uF 20% 16V | |
| C211 | 1-124-471-00 | ELECT 1000uF 20% 6.3V | |
| C215 | 1-126-101-11 | ELECT 100uF 20% 16V | |
| C216 | 1-126-024-11 | ELECT 220uF 20% 16V | |
| C217 | 1-126-024-11 | ELECT 220uF 20% 16V | |
| C218 | 1-124-120-11 | ELECT 220uF 20% 25V | |
| C219 | 1-124-120-11 | ELECT 220uF 20% 25V | |
| C220 | 1-126-300-11 | ELECT 0.47uF 20% 50V | |
| C221 | 1-162-306-11 | CERAMIC 0.01uF 20% 16V | |
| C222 | 1-126-022-11 | ELECT 47uF 20% 16V | |
| C300 | 1-164-159-11 | CERAMIC 0.1uF 50V | |
| C301 | 1-124-589-11 | ELECT 47uF 20% 16V | |
| C302 | 1-162-306-11 | CERAMIC 0.01uF 20% 16V | |
| C309 | 1-126-022-11 | ELECT 47uF 20% 16V | |
| C310 | 1-164-159-11 | CERAMIC 0.1uF 50V | |
| C311 | 1-136-161-00 | FILM 0.047uF 5% 50V | |
| C312 | 1-161-374-11 | CERAMIC 0.0015uF 20% 50V | |
| C313 | 1-164-159-11 | CERAMIC 0.1uF 50V | |
| C314 | 1-162-306-11 | CERAMIC 0.01uF 20% 16V | |
| C315 | 1-126-300-11 | ELECT 0.47uF 20% 50V | |
| C316 | 1-164-159-11 | CERAMIC 0.1uF 50V | |

## MAIN RELAY

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C317 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C320 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C321 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C323 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C331 | 1-162-208-31 | CERAMIC | 24PF | 5% | 50V |
| C332 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C333 | 1-162-208-31 | CERAMIC | 24PF | 5% | 50V |
| C336 | 1-126-022-11 | ELECT | 47uF | 20% | 16V |
| C337 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C341 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C342 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C343 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C345 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C346 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C348 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C349 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C351 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C353 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C354 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C356 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C357 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C358 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C361 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C363 | 1-136-437-11 | FILM | 220PF | 5% | 630V |
| | | (US, Canadian, E) | | | |
| C363 | 1-136-810-11 | FILM | 220PF | 5% | 100V (AEP) |
| C364 | 1-136-437-11 | FILM | 220PF | 5% | 630V |
| | | (US, Canadian, E) | | | |
| C364 | 1-136-810-11 | FILM | 220PF | 5% | 100V (AEP) |
| C365 | 1-136-437-11 | FILM | 220PF | 5% | 630V |
| | | (US, Canadian, E) | | | |
| C365 | 1-136-810-11 | FILM | 220PF | 5% | 100V (AEP) |
| C366 | 1-136-437-11 | FILM | 220PF | 5% | 630V |
| | | (US, Canadian, E) | | | |
| C366 | 1-136-810-11 | FILM | 220PF | 5% | 100V (AEP) |
| C367 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C371 | 1-106-359-00 | MYLAR | 4700PF | 5% | 200V |
| C372 | 1-106-359-00 | MYLAR | 4700PF | 5% | 200V |
| C373 | 1-130-472-00 | MYLAR | 0.0012uF | 5% | 50V |
| C374 | 1-130-472-00 | MYLAR | 0.0012uF | 5% | 50V |
| C375 | 1-123-381-00 | ELECT | 2.2uF | 20% | 100V |
| C376 | 1-123-381-00 | ELECT | 2.2uF | 20% | 100V |
| C377 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C378 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C401 | 1-126-022-11 | ELECT | 47uF | 20% | 16V |
| C402 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C403 | 1-126-022-11 | ELECT | 47uF | 20% | 16V |
| C404 | 1-126-022-11 | ELECT | 47uF | 20% | 16V |
| C405 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C406 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C407 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C408 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C409 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C410 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C411 | 1-125-486-11 | DOUBLE LAYERS | 0.22F | | 5.5V |
| C412 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C413 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C451 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C520 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C571 | 1-126-024-11 | ELECT | 220uF | 20% | 16V |
| C572 | 1-126-024-11 | ELECT | 220uF | 20% | 16V |
| C601 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| | | (C79ES) | | | |
| C602 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C603 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C900 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C901 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C902 | 1-126-022-11 | ELECT | 47uF | 20% | 16V |
| C903 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C904 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C905 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C909 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V |
| C912 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C913 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C915 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C941 | 1-107-210-00 | MICA | 22PF | 5% | 500V |
| C942 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C943 | 1-124-463-00 | ELECT | 0.1uF | 20% | 50V |
| C944 | 1-124-463-00 | ELECT | 0.1uF | 20% | 50V |
| C945 | 1-124-463-00 | ELECT | 0.1uF | 20% | 50V |
| C971 | 1-107-210-00 | MICA | 22PF | 5% | 500V |
| C972 | 1-124-910-11 | ELECT | 47uF | 20% | 50V |
| C973 | 1-124-463-00 | ELECT | 0.1uF | 20% | 50V |
| C974 | 1-124-463-00 | ELECT | 0.1uF | 20% | 50V |
| C975 | 1-124-463-00 | ELECT | 0.1uF | 20% | 50V |
| C992 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |

< CONNECTOR >

| | | |
|---|---|---|
| * CN201 | 1-580-230-11 | PIN, CONNECTOR (PC BOARD) 3P |
| * CN301 | 1-691-895-21 | CONNECTOR, FFC/FPC 18P |
| * CN401 | 1-568-839-11 | SOCKET, CONNECTOR 23P |
| * CN403 | 1-568-824-11 | SOCKET, CONNECTOR 5P |
| * CN404 | 1-568-943-11 | PIN, CONNECTOR 5P |
| * CN501 | 1-564-708-11 | PIN, CONNECTOR (SMALL TYPE) 6P |
| * CN502 | 1-564-506-11 | PLUG, CONNECTOR 3P |
| CN601 | 1-566-213-11 | PIN, CONNECTOR 4P (CONTROL S IN) (C79ES) |
| * CN602 | 1-564-506-11 | PLUG, CONNECTOR 3P (C89ES) |
| * CN831 | 1-568-937-11 | PIN, CONNECTOR 10P |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * CN832 | 1-568-937-11 | PIN, CONNECTOR 10P | |
| * CN901 | 1-568-946-11 | PIN, CONNECTOR 8P | |
| * CN902 | 1-568-944-11 | PIN, CONNECTOR 6P | |
| * CN903 | 1-568-955-11 | PIN, CONNECTOR 6P | |
| * CN905 | 1-568-955-11 | PIN, CONNECTOR 6P (C89ES) | |
| * CN906 | 1-564-509-11 | PLUG, CONNECTOR 6P (C89ES) | |
| | | < DIODE > | |
| D201 | 8-719-200-82 | DIODE 11ES2 | |
| D202 | 8-719-109-87 | DIODE RD5.6ES-B | |
| D203 | 8-719-200-82 | DIODE 11ES2 | |
| D204 | 8-719-200-82 | DIODE 11ES2 | |
| D205 | 8-719-200-82 | DIODE 11ES2 | |
| D206 | 8-719-200-82 | DIODE 11ES2 | |
| D208 | 8-719-109-85 | DIODE RD5.1ES-B2 | |
| D209 | 8-719-987-63 | DIODE 1N4148M | |
| D211 | 8-719-200-82 | DIODE 11ES2 | |
| D212 | 8-719-200-82 | DIODE 11ES2 | |
| D213 | 8-719-987-63 | DIODE 1N4148M | |
| D214 | 8-719-987-63 | DIODE 1N4148M | |
| D341 | 8-719-921-63 | DIODE RD7.5ES-B (C89ES) | |
| D351 | 8-719-987-63 | DIODE 1N4148M | |
| D401 | 8-719-987-63 | DIODE 1N4148M | |
| D571 | 8-719-987-63 | DIODE 1N4148M (C89ES) | |
| D601 | 8-719-987-63 | DIODE 1N4148M (C79ES) | |
| D602 | 8-719-987-63 | DIODE 1N4148M (C79ES) | |
| D603 | 8-719-109-87 | DIODE RD5.6ES-B (C79ES) | |
| D902 | 8-719-987-63 | DIODE 1N4148M (C89ES) | |
| | | < GROUND PLATE > | |
| EB201 | 4-870-539-00 | PLATE, GROUND | |
| | | < IC > | |
| IC201 | 8-759-605-43 | IC M5231TL | |
| IC202 | 8-759-630-21 | IC M5290P-16 | |
| IC203 | 8-759-900-72 | IC NE5532P | |
| IC204 | 8-759-604-86 | IC M5F7807L | |
| IC205 | 8-759-708-12 | IC NJM78L12A | |
| IC206 | 8-759-700-69 | IC NJM79L12A | |
| IC301 | 8-752-337-26 | IC CXD2500AQ | |
| IC302 | 8-752-342-65 | IC CXD2560M | |
| IC303 | 8-759-044-10 | IC CXD2562Q | |
| IC306 | 8-759-900-72 | IC NE5532P | |
| IC307 | 8-759-900-72 | IC NE5532P | |
| IC308 | 8-759-977-71 | IC GP-1F31T | |
| IC401 | 8-759-065-76 | IC uPD75516GF-374-3B9 (C79ES) | |
| IC401 | 8-759-065-75 | IC uPD75516GF-373-3B9 (C89ES) | |
| IC402 | 8-759-512-81 | IC LH5160N-10L | |
| IC403 | 8-759-821-32 | IC CXA1291P | |
| IC571 | 8-759-745-56 | IC RC4556D | |
| IC901 | 8-752-341-99 | IC CXD2701Q | |
| IC902 | 8-759-508-41 | IC MS51464-10NC | |
| IC903 | 8-759-065-83 | IC M37470M4-089SP | |
| IC904 | 8-759-917-18 | IC SN74HCU04AN | |
| IC910 | 8-759-900-72 | IC NE5532P | |
| | | < JACK > | |
| J381 | 1-568-760-11 | JACK, PIN 4P (LINE OUT) | |
| | | < COIL > | |
| ⚠L201 | 1-421-915-11 | COIL, LINE FILTER | |
| L331 | 1-408-403-00 | INDUCTOR 3.3uH | |
| L341 | 1-412-473-21 | INDUCTOR 0uH | |
| L343 | 1-412-473-21 | INDUCTOR 0uH | |
| L345 | 1-412-473-21 | INDUCTOR 0uH | |
| L346 | 1-412-473-21 | INDUCTOR 0uH | |
| L348 | 1-412-473-21 | INDUCTOR 0uH | |
| L358 | 1-412-473-21 | INDUCTOR 0uH | |
| L902 | 1-412-473-21 | INDUCTOR 0uH | |
| L903 | 1-412-473-21 | INDUCTOR 0uH | |
| L904 | 1-408-403-00 | INDUCTOR 3.3uH | |
| | | < IC LINK > | |
| ⚠PS201 | 1-532-685-00 | LINK, IC (AEP, E) | |
| ⚠PS202 | 1-532-637-00 | LINK, IC 1.0A (AEP, E) | |
| | | < TRANSISTOR > | |
| Q201 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q203 | 8-729-141-83 | TRANSISTOR 2SB1094-LK | |
| Q204 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| Q205 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q206 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q341 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| Q342 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| Q343 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q344 | 8-729-201-53 | TRANSISTOR 2SA1015-GR (C89ES) | |
| Q345 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| Q346 | 8-729-201-53 | TRANSISTOR 2SA1015-GR (C89ES) | |
| Q371 | 8-729-141-26 | TRANSISTOR 2SC3622A-LK | |
| Q372 | 8-729-141-26 | TRANSISTOR 2SC3622A-LK | |
| Q373 | 8-729-141-26 | TRANSISTOR 2SC3622A-LK | |
| Q374 | 8-729-141-26 | TRANSISTOR 2SC3622A-LK | |
| Q375 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| Q376 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| Q573 | 8-729-201-53 | TRANSISTOR 2SA1015-GR (C89ES) | |
| Q574 | 8-729-281-52 | TRANSISTOR 2SC1815-Y (C89ES) | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

**MAIN** **RELAY**

| Ref. No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| Q575 | 8-729-900-85 | TRANSISTOR | DTC144WS (C89ES) | |
| Q576 | 8-729-900-65 | TRANSISTOR | DTA144ES (C89ES) | |
| Q577 | 8-729-900-65 | TRANSISTOR | DTA144ES (C89ES) | |
| Q601 | 8-729-900-89 | TRANSISTOR | DTC144ES | |
| Q602 | 8-729-900-61 | TRANSISTOR | DTA114ES | |
| Q603 | 8-729-900-61 | TRANSISTOR | DTA114ES | |
| Q604 | 8-729-900-61 | TRANSISTOR | DTA114ES | |
| Q901 | 8-729-900-63 | TRANSISTOR | DTA124ES | |
| Q902 | 8-729-900-63 | TRANSISTOR | DTA124ES | |
| Q903 | 8-729-900-63 | TRANSISTOR | DTA124ES | |
| Q941 | 8-729-231-55 | TRANSISTOR | 2SC2878-AB | |
| Q942 | 8-729-231-55 | TRANSISTOR | 2SC2878-AB | |
| Q943 | 8-729-231-55 | TRANSISTOR | 2SC2878-AB | |
| Q971 | 8-729-231-55 | TRANSISTOR | 2SC2878-AB | |
| Q972 | 8-729-231-55 | TRANSISTOR | 2SC2878-AB | |
| Q973 | 8-729-231-55 | TRANSISTOR | 2SC2878-AB | |
| | | < RESISTOR > | | |
| R201 | 1-249-429-11 | CARBON | 10K 5% 1/4W | |
| R202 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R205 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | |
| R208 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W | |
| R209 | 1-249-413-11 | CARBON | 470 5% 1/4W | |
| R210 | 1-249-429-11 | CARBON | 10K 5% 1/4W | |
| R211 | 1-249-410-11 | CARBON | 270 5% 1/4W | |
| R212 | 1-249-439-11 | CARBON | 68K 5% 1/4W | |
| R213 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W | |
| R214 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R215 | 1-249-409-11 | CARBON | 220 5% 1/4W | |
| R220 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | |
| R221 | 1-249-417-11 | CARBON | 1K 5% 1/4W | (C89ES) |
| R305 | 1-249-411-11 | CARBON | 330 5% 1/4W | |
| R311 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W | |
| R312 | 1-249-429-11 | CARBON | 10K 5% 1/4W | |
| R313 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W | |
| R314 | 1-249-429-11 | CARBON | 10K 5% 1/4W | |
| R315 | 1-249-405-11 | CARBON | 100 5% 1/4W | |
| R316 | 1-247-903-00 | CARBON | 1M 5% 1/4W | |
| R317 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R318 | 1-249-441-11 | CARBON | 100K 5% 1/4W | |
| R321 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R322 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R323 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R324 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R330 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R331 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R332 | 1-247-887-00 | CARBON | 220K 5% 1/4W | |
| R342 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R343 | 1-249-441-11 | CARBON | 100K 5% 1/4W | |
| R344 | 1-249-441-11 | CARBON | 100K 5% 1/4W | |
| R345 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | |
| R346 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | |
| R347 | 1-249-441-11 | CARBON | 100K 5% 1/4W | |
| R348 | 1-249-429-11 | CARBON | 10K 5% 1/4W | (C89ES) |
| R349 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R350 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | (C89ES) |
| R351 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W | |
| R352 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W | |
| R353 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W | |
| R354 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W | |
| R355 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W | |
| R356 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W | |
| R357 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W | |
| R358 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W | |
| R359 | 1-247-848-11 | CARBON | 5.1K 5% 1/4W | |
| R361 | 1-247-846-11 | CARBON | 4.3K 5% 1/4W | |
| R362 | 1-247-846-11 | CARBON | 4.3K 5% 1/4W | |
| R363 | 1-247-846-11 | CARBON | 4.3K 5% 1/4W | |
| R364 | 1-247-846-11 | CARBON | 4.3K 5% 1/4W | |
| R365 | 1-249-429-11 | CARBON | 10K 5% 1/4W | |
| R366 | 1-249-429-11 | CARBON | 10K 5% 1/4W | |
| R367 | 1-249-429-11 | CARBON | 10K 5% 1/4W | |
| R368 | 1-249-429-11 | CARBON | 10K 5% 1/4W | |
| R369 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W | |
| R370 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W | |
| R371 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W | |
| R372 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W | |
| R373 | 1-247-891-00 | CARBON | 330K 5% 1/4W | |
| R374 | 1-247-891-00 | CARBON | 330K 5% 1/4W | |
| R375 | 1-249-409-11 | CARBON | 220 5% 1/4W | |
| R376 | 1-249-409-11 | CARBON | 220 5% 1/4W | |
| R377 | 1-249-409-11 | CARBON | 220 5% 1/4W | |
| R378 | 1-249-409-11 | CARBON | 220 5% 1/4W | |
| R379 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | |
| R380 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | |
| R381 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | |
| R382 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | |
| R383 | 1-249-413-11 | CARBON | 470 5% 1/4W | |
| R384 | 1-249-413-11 | CARBON | 470 5% 1/4W | |
| R385 | 1-249-393-11 | CARBON | 10 5% 1/4W | |
| R386 | 1-249-393-11 | CARBON | 10 5% 1/4W | |
| R389 | 1-249-413-11 | CARBON | 470 5% 1/4W | |
| R390 | 1-249-413-11 | CARBON | 470 5% 1/4W | |
| R401 | 1-249-411-11 | CARBON | 330 5% 1/4W | |
| R402 | 1-249-399-11 | CARBON | 33 5% 1/4W | |
| R403 | 1-249-417-11 | CARBON | 1K 5% 1/4W | |
| R409 | 1-247-881-00 | CARBON | 120K 5% 1/4W | (C79ES) |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R409 | 1-247-882-11 | CARBON | 130K | 5% | 1/4W | (C89ES) |
| R410 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | (C79ES) |
| R410 | 1-247-882-11 | CARBON | 130K | 5% | 1/4W | (C89ES) |
| R411 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | (C79ES) |
| R411 | 1-247-880-11 | CARBON | 110K | 5% | 1/4W | (C89ES) |
| R412 | 1-247-878-00 | CARBON | 91K | 5% | 1/4W | (C79ES) |
| R412 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | (C89ES) |
| R413 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| R414 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| R415 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W | (C79ES) |
| R415 | 1-247-876-11 | CARBON | 75K | 5% | 1/4W | (C89ES) |
| R416 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W | (C79ES) |
| R416 | 1-247-876-11 | CARBON | 75K | 5% | 1/4W | (C89ES) |
| R417 | 1-247-878-00 | CARBON | 91K | 5% | 1/4W | |
| R418 | 1-247-878-00 | CARBON | 91K | 5% | 1/4W | |
| R419 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R420 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W | |
| R421 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | |
| R422 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | |
| R423 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | |
| R450 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R451 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R452 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R453 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R454 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R456 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R457 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R458 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R459 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R460 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R461 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R462 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R463 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R464 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R465 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R571 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R572 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R573 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R574 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R575 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R576 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W | |
| R578 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| R583 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R584 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R585 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R586 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W | |
| R589 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| R591 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | (C89ES) |
| R592 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | (C89ES) |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R593 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | (C89ES) |
| R594 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | (C89ES) |
| R601 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R602 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R603 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | (C79ES) |
| R901 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R902 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R903 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R905 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R906 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R907 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R910 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R911 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R912 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R913 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R915 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R916 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R917 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R924 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R925 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R941 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R943 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R945 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R946 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R947 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R948 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R949 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | |
| R950 | 1-247-836-11 | CARBON | 1.6K | 5% | 1/4W | |
| R951 | 1-247-828-11 | CARBON | 750 | 5% | 1/4W | |
| R952 | 1-247-832-11 | CARBON | 1.1K | 5% | 1/4W | |
| R953 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | |
| R971 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W | |
| R973 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R975 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R976 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R977 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R978 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R979 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | |
| R980 | 1-247-836-11 | CARBON | 1.6K | 5% | 1/4W | |
| R981 | 1-247-828-11 | CARBON | 750 | 5% | 1/4W | |
| R982 | 1-247-832-11 | CARBON | 1.1K | 5% | 1/4W | |
| R983 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W | |

< RELAY >

| | | | |
|---|---|---|---|
| RY901 | 1-515-726-11 | RELAY | (C89ES) |
| RY902 | 1-515-726-11 | RELAY | (C89ES) |

**MAIN** **RELAY**

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < SWITCH > | |
| ⚠S201 | 1-571-722-11 | SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (E) | |
| | | < VIBRATOR > | |
| X351 | 1-579-161-11 | VIBRATOR, CRYSTAL (45MHz) | |
| X401 | 1-577-359-21 | VIBRATOR, CERAMIC (4.19MHz) | |
| X901 | 1-577-359-21 | VIBRATOR, CERAMIC (3.15MHz) | |
| ********** | | | |
| | | MISCELLANEOUS | |
| | | ********** | |
| ⚠16 | 1-559-583-21 | CORD, POWER | |
| ⚠60 | 1-558-568-21 | CORD, POWER (AEP) | |
| ⚠61 | 1-558-181-21 | CORD, POWER (E) | |
| ⚠62 | 1-569-007-11 | ADAPTER, CONVERSION 2P (E) | |
| ⚠63 | 1-559-583-21 | CORD, POWER (US, Canadian) | |
| 115 | 1-590-868-11 | WIRE, FLAT TYPE | |
| 117 | 1-590-867-11 | WIRE, FLAT TYPE | |
| 170 | 1-694-003-11 | JAMPER, FILM (WITH TARMINAL) | |
| * 206 | 1-452-538-11 | MAGNET | |
| 215 | 1-590-849-11 | WIRE, FLAT TYPE (5 CORE) | |
| ⚠256 | 8-848-144-11 | DEVICE, OPTICAL KSS-240A | |
| 257 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | |
| M101 | X-4917-504-1 | MOTOR ASSY, SLED | |
| M102 | X-4917-523-3 | MOTOR ASSY, SPINDLE | |
| M701 | A-4604-585-A | MOTOR ASSY, ROTARY | |
| M702 | A-4604-871-A | MOTOR ASSY, LOADING | |
| S701 | 1-572-713-11 | SWITCH, PUSH (WITH CONNECTOR) (DOWN) | |
| ⚠T901 | 1-450-542-11 | TRANSFORMER, POWER (US, Canadian) | |
| ⚠T901 | 1-450-543-11 | TRANSFORMER, POWER (AEP) | |
| ⚠T901 | 1-450-544-11 | TRANSFORMER, POWER (E) | |
| ********** | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | ACCESSORIES & PACKING MATERIALS | |
| | | ********** | |
| | 1-465-727-11 | REMOTE COMMANDER (RM-D815) (C89ES) | |
| | 1-465-728-11 | REMOTE COMMANDER (RM-D715) (C79ES) | |
| | 1-558-233-11 | CORD (WITH CONNECTOR) (SIRCS) 4P (C89ES) | |
| | 1-558-271-11 | CORD, CONNECTION | |
| | 1-575-103-31 | CORD (WITH CONNECTOR) (C89ES) | |
| | 1-590-925-31 | CORD, CONNECTION | |
| | 3-704-366-01 | SCREW (CASE) (M3X8) | |
| | 3-707-584-01 | COVER, BATTERY | |
| | 3-755-064-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (Canadian, AEP, E) | |
| | 3-755-064-21 | MANUAL, INSTRUCTION (ENGLISH) (US) | |
| | 3-755-064-41 | MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP) | |
| * | 4-934-320-01 | CUSHION (FRONT) | |
| * | 4-934-321-01 | CUSHION (REAR) | |
| * | 4-952-388-01 | INDIVIDUAL CARTON (C79ES) | |
| * | 4-952-388-11 | INDIVIDUAL CARTON (C89ES) | |
| ********** | | | |

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## HARDWARE LIST
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| | | |
|---|---|---|
| #1 | 7-682-247-09 | SCREW +K 3X6 |
| #2 | 7-685-648-79 | SCREW +BVTP 3X12 TYPE2 N-S |
| #3 | 7-685-870-01 | SCREW +BVTT 3X5 (S) |
| #4 | 7-682-547-09 | SCREW +BV 3X6, S TIGHT |
| #5 | 7-685-647-79 | SCREW, TAPPING |
| #6 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S |
| #7 | 7-682-661-09 | SCREW +PSW 4X8 |
| #8 | 7-685-136-19 | SCREW +P 2.6X12 TYPE2 NON-SLIT |
| #9 | 7-685-666-79 | SCREW +BVTP 4X30 TYPE2 N-S (C89ES) |
| #10 | 7-682-554-04 | SCREW +B 3X25 |
| #11 | 7-683-401-04 | BOLT, HEXAGON SOCKET 3X4 |
| #12 | 7-621-255-15 | SCREW +P 2X3 |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

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